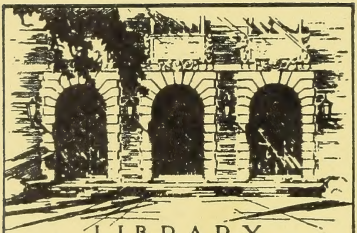

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OF THE
UNIVERSITY OF ILLINOIS

ALMA COLLEGE BULLETIN

Volume 10 Number 1

CATALOG 1912-1913

ANNOUNCEMENTS FOR 1913-1914

ALMA, MICHIGAN

Published by The College the first and third Tuesdays of each month.

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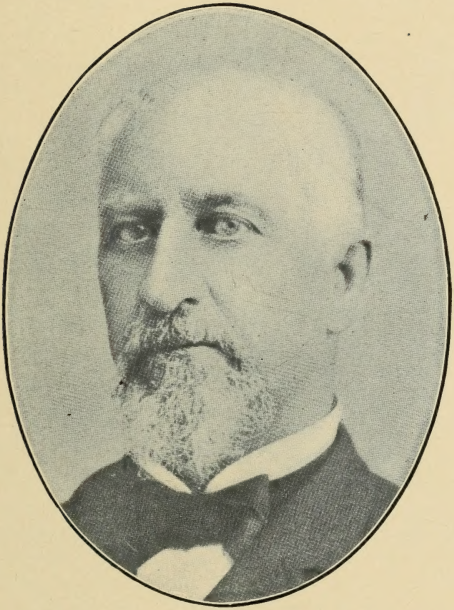

AMMI WILLARD WRIGHT

BORN JULY 5TH, 1822
DIED MAY 5TH, 1912

Alma College

CATALOG, 1912-1913

ANNOUNCEMENTS FOR 1913-1914

ALMA - - - MICHIGAN

Entered as second-class matter April 20, 1904, under Act of Congress, July 16, 1894.

Calendar

1913.

April	8	Tuesday	Third Term begins.
May	30	Friday	Freshman Exhibition.
June	2	Monday	Final Examinations begin.
June	8	Sunday	Farewell Communion, 10:00 a. m.
			Address before Christian Ass'ns, 3:00 p. m.
			Baccalaureate Sermon, 7:30 p. m.
June	9	Monday	Class Day.
			Class-Day Exercises, 8:00 p. m.
June	10	Tuesday	Closing Exercises of the Kindergarten Department, 10:00 a. m.
			Artists' Recital, 3:00 p. m.
			Annual Concert, 8:00 p. m.
June	11	Wednesday	Alumni Day.
			Meeting of the Trustees, 10:00 a. m.
			Meeting of Alumni Association, 1:00 p. m.
			Senior Promenade, 8:00 p. m.
			President's Reception, 8:00 to 10:00 p. m.
June	12	Thursday	Commencement, 10:00 a. m.
			Commencement Banquet, 1:00 p. m.

Summer Vacation.

Sept.	16	Tuesday	Matriculation.
Sept.	17	Wednesday	First Term begins, 9:00 a. m. Opening Address.
Oct.	14	Tuesday	Founders' Day.
Nov.	26	Wednesday	Thanksgiving Recess begins, 4 p. m.
Dec.	1	Monday	Thanksgiving Recess ends, 1 p. m.
Dec.	19	Friday	First Term ends.

Winter Vacation

1914.

Jan.	6	Tuesday	Second Term begins, 8 a. m.
Jan.	20	Tuesday	Mid-year Meeting of Board of Trustees.
Feb.	2	Monday	Semi-Annual Examinations begin.
Feb.	6	Friday	First Semester ends.
Feb.	9	Monday	Second Semester begins.
Feb.	12	Thursday	Day of Prayer for Colleges.
Mar.	27	Friday	Second Term ends.

Spring Vacation

April	7	Tuesday	Third Term begins, 8 a. m.
June	5	Friday	Freshman Exhibition.
June	18	Thursday	Commencement.

IN NOMINE DEI, AMEN.

"Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

—Synod of Michigan, Grand Rapids, Oct. 14, 1886.

The Corporation

TRUSTEES

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W. O. Hughart, Jr., Grand Rapids.
Rev. David Howell, D. D., Dimondale.
Robert S. Tracy, Sturgis.
John W. S. Pierson, Stanton.

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M. W. Tanner, Saginaw.
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2. Finance—
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6. Faculty, Instructors, Etc.—
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7. Degrees—
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9. Endowment—
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VISITING COMMITTEE OF THE SYNOD OF MICHIGAN

The Synod's Committee on Colleges.

The Faculty

Thomas C. Blaisdell, Ph. D.,
President, and Professor of English. 801 West Superior Street.

August F. Bruske, D. D., LL. D.,
*Professor of Ethics.

John T. Ewing, A. M.,
Alexander Folsom Professor of Greek and Latin. 315 Grant Avenue.

James E. Mitchell, A. M.,
Ammi W. Wright Professor of History and Political Science, and Dean of the Faculty[2]. 412 Maple Avenue.

Frank N. Notestein, Ph. D.,
Ammi W. Wright Professor of Mathematics and Physics, and †Dean of the Faculty. 231 Philadelphia Avenue.

Jay Clizbe, D. D.,
Synod of Michigan Professor of Biblical Literature. 525 West Superior Street.

Mrs. Mary M. Fancher,
Instructor in French and Dean of Women. Wright Hall.

Marie Haefliger, A. B.,
Instructor in German, Wells Foundation. Wright Hall.

Francis E. West, M. S.,
Wright-Davis Professor of Chemistry, and Secretary of the Faculty. 220 Maple Avenue.

Hansford M. MacCurdy, Ph. D.,
Nathan B. Bradley Professor of Biology and Geology. 701 West Center Street.

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*On leave of absence.

[2] Elected Dean, March 27, 1913.

†Resigned as Dean, March 27, 1913.

Albert P. Cook, A. M.,
Principal of the Academy and Instructor in Mathematics. 611 West Center Street.

George B. Randels, Ph. D.,
Professor of Psychology and Pedagogy. 301 Grant Avenue.

Glenn Y. Warner, B. S.,
Instructor in English Speech, Gelston Foundation. 418 Maple Avenue.

Ruth Schultz, A. B.,
Instructor in Latin and Greek. Wright Hall.

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Caroleen Robinson,
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Florence Ward,
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Reese F. Veatch,
Principal of the School of Music and Instructor in Voice. 524 College Avenue.

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Minnie M. Cheesman,
Instructor in Piano and Music Building, and Normal Methods. 413 Wright Avenue.

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Instructor in Violin. 416 Maple Avenue.

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Instructor in History of Music and Voice Culture. 408 West Superior Street.

JOHN ANDERSON,
Assistant in Voice. 524 College Avenue.

THEO M. AMSBURY,
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Director of Physical Training for Men. Instructor in Elementary Biology. 315 Maple Avenue.

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Instructor in Physics. Pioneer Hall.

CHALMERS MONTEITH,
Instructor in Chemistry. 526 College Avenue.

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PIONEER HALL,
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Blaisdell, Ewing, Cook, Mitchell.

RELIGIOUS EXERCISES,
Blaisdell, Clizbe, Notestein.

TEACHERS,
Blaisdell, Notestein, Ewing.

EMERGENCY,
Notestein, Mitchell, Cook, Fancher.

SOCIAL,
Mitchell, Robinson, Haefliger, Fancher.

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801 West Superior Street.

JAMES E. MITCHELL, A. M. .... Dean
412 Maple Avenue.

MRS. MARY M. FANCHER .... Dean of Women
Wright Hall.

ALBERT P. COOK, A. M. .... Sec'y and Ass't Treasurer
611 West Center Street.

JOHN T. EWING, A. M. .... Registrar
315 Grant Avenue.

HELEN B. COOK, A. B. .... Librarian
611 West Center Street.

WILLIAM C. BLEAMASTER, B. S. .... Director of Athletics
315 Maple Avenue.

Miss T. Albertson..............Matron of Wright Hall
Wright Hall.

Mrs. Eva Spaulding.............Matron of Pioneer Hall
532 Linden Avenue.

Marcia A. Carl...........Stenographer to the President
Wright Hall.

Mathilde Ryan..Assistant to the Secretary and Registrar
Wright Hall.

Alma College

LOCATION

The city of Alma, in which Alma College is located, is in Gratiot County, in almost exactly the geographical center of the lower peninsula of Michigan. It is on the division of the Pere Marquette Railway running from Grand Rapids to Saginaw, being about eighty miles from the former city and forty from the latter. It is also on the Ann Arbor Railroad, 145 miles from Toledo and eighty miles from Cadillac. *Alma has no saloons,* Gratiot County having been ''dry'' since May, 1907.

With paved and well shaded streets, a complete sewer system, city water, electric lights, an exceptionally efficient public school with a high school building costing $65,000, and with numerous churches, this little city of about 3,000 people has proven itself to be an unusually healthful and morally uplifting community to which parents may entrust their children or to which they may come for the purpose of educating their children.

HISTORY

On a Sunday evening in 1886 the Rev. J. Ambrose Wight preached a sermon from his pulpit in the First Presbyterian Church of Bay City, in which he emphasized the need of a Christian college in central Michigan. At the close of the service Mr. Alexander Folsom came forward and said to Mr. Wight that he was ready to give $50,000 toward the founding of such a college. On September 28, 1886, the committee of the Synod met in Alma and received the formal offer of this gift. At the same time Mr. A. W. Wright offered, for the town, a campus on which two buildings for educational purposes had already been erected and furnished, the whole valued at $40,000. Other friends offered to provide for professorships for five years, to add to the endowment, to give toward current expenses, and to provide a library.

The committee made its report to the Synod in the Westminster Presbyterian Church at Grand Rapids on October 14, 1886, with the result that the Synod "Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

The doors of Alma College were opened to students on September 12, 1887. Thirty-four young men and young women registered the first day. The total attendance during the year was ninety-five.

The first president of Alma College was the Rev. George F. Hunting, D. D., who served until April 20th, 1891. On June 16, 1891, his successor, the Rev. August F. Bruske, was inaugurated and served in the office until July, 1912. President Bruske signed the diplomas of the members of the first class, which was graduated in 1891, and of every succeeding class to the time of his retirement.

In the summer of 1888 a heating plant was erected; in 1889 a library building was completed; in 1895 the gymnasium was completed; the Hood Museum was dedicated in June, 1900. Wright Hall was completed and opened its doors as the home for young women in 1902. The Davis Athletic Field was graded and inclosed in 1902, while its beautiful entrance gate was erected in 1912.

Alma College has a campus of thirty-six acres. This, with the buildings, is valued at $175,000. The college has an endowment of about $400,000.

The material progress of Alma has been made possible by a host of friends, foremost among whom will always be mentioned Mr. Ammi W. Wright. His total gifts in additions to the endowment, in Wright Hall, in library funds, and in the payment of current expenses aggregate about $400,000. The passing of Mr. Wright on May 5, 1912, was mourned by every friend of the college, and particularly by the thousands of young people who have been blessed in their educational privileges by his liberality.

PROSPECTS

The Alma of tomorrow promises to excel the Alma of today. At a meeting of the Board of Trustees held on February 18, 1913, money was appropriated to renew and improve the present buildings and to erect a president's house. Further, an endowment committee was appointed who at once began energetic measures toward doubling both the material equipment of the college and the endowment. A student entering Alma in the fall of 1913 and spending four years in the college will no doubt be there during the period of a continued forward movement. A new gymnasium is contemplated, as well as a science hall, and a music building containing an adequate auditorium. The trustees hope also soon to endow a chair of home economics and to equip ample laboratories.

Such plans mean much to the coming generations of Alma students.

TERMS OF ADMISSION

All applicants must present testimonials of good moral character, and, if from other colleges, letters of honorable dismissal.

The unit of credit for preparatory work is a daily recitation for a school year. Fifteen such units are required for unconditioned entrance to the Freshman Class. It is suggested that they be presented in the following subjects:

English, three units; Mathematics, three units; History, one unit; Science, one unit; Foreign Language, two units; Electives, five units.

The five elective units may be selected from the following list of subjects:

Latin—2, 3 or 4 units.
Greek—2 units.
French—2 units.
German—2 units.
English—1 unit.
History—1 or 2 units.
Civics—½ unit.
Physics—1 unit.
Botany—1 unit.
Chemistry—1 unit.
Zoology—1 unit.
Physiography—½ unit.
Elem. Geology—½ unit.
Vocational subjects—1, 2 or 3 units.

The language requirement may be met by offering two units in either Latin, Greek, French or German. Candidates for the A. B. degree should offer four units in Latin. All students are advised to offer at least two units in Latin.

Candidates who are deficient in not more than one of the required fifteen units may be admitted conditionally to the Freshman Class, but the condition must be removed before work in majors is undertaken.

METHODS OF ADMISSION

I. By Certificate

Examinations will be waived in the case of applicants who present certificates of graduation from any *accredited* high school. Applicants from accredited high schools must send or present in person a full statement by the proper persons of the work done in each study. Blank forms for this purpose may be obtained on application to the Registrar.

Candidates for advanced standing will be examined on the subjects previously studied by the classes they desire to enter, except in the case of undergraduates of other institutions who present letters of honorable dismission and also careful statements, duly verified, of the studies pursued and the credits received therein.

II. By Examination

Examinations for admission will be held on Tuesday, September 16, 1913, beginning at 9 o'clock a. m. The entrance examinations are designed to test the ability of the candidate to undertake the course of study, and not merely to ascertain the character and amount of his acquired knowledge.

III. For Partial Courses

Students desiring to pursue partial courses in the College *must meet the requirements for admission*. In laying out their work, they are required to consult with the instructors in charge of the subjects they wish to pursue, and they will be subject to the same regulations as to College requirements, number of hours of work, etc., as other students. They will not be regarded as candidates for a degree. A certificate setting forth the amount of work which has been done will be given any such student as requests it.

Adults whose preparation for college is defective are permitted to enter classes for which they are prepared.

THE REQUIREMENTS FOR GRADUATION

The standard unit of credit used in estimating college work is one recitation period a week for one semester, or one ''semester-hour.'' In laboratory courses a two-hour period is considered equal to a one-hour recitation period. One hundred and twenty semester hours are required for graduation, making the average requirements per semester fifteen recitation periods a week. The recitation period is 55 minutes in length.

The subjects comprised in the college course of instruction are arranged in groups, each of which contains (a) certain subjects required of all students; (b) two major subjects; (c) general electives, the choice of which is unrestricted.

(a) The required subjects are the following: English, six hours; History, six hours; Laboratory Science, eight hours; Philosophy, six hours; Biblical Literature, eight hours; Physical Training, two hours; Foreign Language, twelve to sixteen hours.

(b) In order to secure to the student the advantage of intensive work, he is required at the opening of the Junior year to choose two subjects in which he must secure a total credit of forty hours. This work should be done in the Junior and Senior years and certain prerequisite courses must be taken in the first two years of the course. A thesis on a theme approved by the instructor may also be required.

(c) The remainder of the one hundred and twenty hours may be elected from any of the departments of instruction of the College. The following subjects may be elected, with due regard to the limitations imposed by the program of recitations:

Art.
Astronomy.
Biology.
Chemistry.
English.
French.
Geology.
German.
Greek.
History.
Latin.
Mathematics.
Music.
Oratory.
Pedagogy.
Philosophy.
Physics.
Political Economy.

The groups from which the choice of major subjects for 1913-1914 may be made are given below:

I. Latin-Greek.
II. History-Economics.
III. English-A Modern Language.
IV. English-Latin.
V. English-History.
VI. Political Science-Oratory.
VII. Mathematics-A Laboratory Science.
VIII. Chemistry-Biology.

The degree of A. B. will be given to those students who complete Group I; that of Ph. B., to those who complete any one of Groups II-VI; and that of B. S., to those who complete Group VII or VIII.

FRESHMAN YEAR

Required Subjects:

1. College Life.
   Bible 1.
2. English.
3. A foreign language (usually the one offered for entrance).

Optional Subjects:

1. Mathematics or science.
2. A second language, mathematics, science, or history.

SOPHOMORE YEAR

Required Subjects:

1. Bible 2.
2. A second year in each foreign language taken in Freshman year.

Elective Subjects:

Nine hours in mathematics, history, science, or English, choice to be made from at least two subjects.

The required history and science if not already taken should be included here.

JUNIOR AND SENIOR YEARS

In the work of these years must be included two courses in Bible, two courses in philosophy, and the work in two majors, covering from twelve to fourteen hours each. The remainder of the sixty hours may be taken in general electives.

PREPARATION FOR PROFESSIONAL WORK

Through the grouping system Alma College offers the student increased facilities for shaping his vocational preparation, while it requires at the same time the broad basis of knowledge and training which is so essential to real success in all lines of activity.

LAW. The student who expects to enter upon the study of the law should do his major work in the History-Economics or the Political Science-Oratory group, with electives in Philosophy and Sociology.

MEDICINE. The Chemistry-Biology group offers lines of major and elective work which are especially useful in preparation for the study of medicine. These departments are well equipped with facilities for laboratory work under competent instruction, and offer a wide range of courses to pre-medical students.

ENGINEERING. Students expecting to become engineers should do major work in the Mathematics-Laboratory

Science group, which offers a number of courses in the mathematics, sciences and modern languages which form a fundamental part of all engineering courses.

TEACHING. The College makes especial provision for the needs of prospective teachers, (a) in its pedagogical courses, (b) in its special courses in the methods of teaching specific subjects, (c) in its offer of a State teacher's certificate to those who meet the requirements of the pedagogical course. The student who expects to teach a particular subject should choose it as one of his majors.

Courses of Instruction

ASTRONOMY

Dr. Notestein

The aim of this course is to give the student a general knowledge of descriptive astronomy. The instruction is based upon the use of a text-book, supplemented by lectures and the use of a telescope. Some time is given to the study of the heavens to enable the student to become acquainted with the names and positions of the principal stars and constellations. Two hours throughout the year.

BIBLICAL LITERATURE

Dr. Clizbe

1. THE LIFE OF CHRIST, in which the student will be expected to master the journeys and events of Christ's life in their order. Two hours, first semester.

2. The Founding and Extension of the Christian Church. Two hours, second semester.

3. Natural Theology and Evidences of Christianity. Three hours, first semester.

4. Christian Sociology. Three hours, second semester.

BIOLOGY

Dr. MacCurdy

1 and 2. General Biology. The work in general biology is designed to give the student a knowledge of the general principles of biology developed from the study of typical forms of plants and animals. It also lays the foundation for more advanced work and helps to a better understanding of life phenomena and the literature which deals with biological subjects. In addition to the general principles, emphasis is laid on the methods of observation and the interpretation of biological phenomena. The course is open to all College students. Two laboratory periods and two recitations throughout the year.

3. Morphology and General Physiology of Plants. This course includes a study of plant forms and their development, the development and relationships of the different members of the plant body, plant cells and cell structures, plant tissues and their development and functions. Emphasis is laid on the interrelations of structure and function. Such texts as Strasburger, Coulter and Barnes, Vines, Stevens, Zimmerman's Microtechnique, and others are useful in this course. Two laboratory periods and two recitations, first semester. 1913-1914.

4. Ecological Botany. The work in this course depends upon the satisfactory completion of Course 3. It

includes the study of the biological relations of plants, their adaptations and the chief factors determining plant distribution and associations. Warming's Plant Ecology, Clement's Research Methods, and Cowles and such reading as is available form the basis of the course. Two recitations and three hours' laboratory or field work, second semester. 1913-1914.

5. ADVANCED ZOOLOGY. This work includes both field and laboratory studies. It includes the study of functional and structural adaptations, variation, distribution and classification, together with the consideration of the biological and economic relations of the important groups and species. Special attention is given insects and their economic relations, with some field work. The laboratory work includes the study of adaptive structures and life histories of typical forms. Two laboratory periods and one recitation, first semester. 1913-1914.

6. COMPARATIVE ANATOMY OF THE VERTEBRATES. Lectures and recitations on the comparative anatomy and general physiology of vertebrates. The laboratory work is on vertebrate types which are studied with special reference to human anatomy and physiology. The course is of value to those preparing to teach and of special interest to those preparing for the study of medicine as well as of general interest to others. Such books as Wiedersheim's Comparative Anatomy, Parker and Haswell's text book of Zoology, vol. II, Jennings and Reighard's The Cat, are useful references. Two laboratory periods and two recitations, first semester. 1913-1914.

7. LABORATORY METHODS AND HISTOLOGICAL TECHNIQUE (General Histology). The general and some of the more special methods of histology are put to practical use in the study of the finer structures and the functions of the various organs, tissues and cells. Experience in the preparation of microscopical slides is gained. The recita-

tions and lectures include comparative studies of the structure and function of the chief tissues and organs. For example, the comparative study of the nervous tissues affords a good foundation for the study of psychology. The texts most used are Guyer, Dahlgren and Koepner, while such books as Lee, Hill, Stohr and others are used as reference. Two laboratory hours and one recitation a week, second semester. 1913-1914.

8. ORGANIC EVOLUTION, OR THEORIES OF DEVELOPMENT. An elective course is offered to advanced students in the study of the theories of evolution and the principles of heredity. The evidences for and against the theories are alike considered. The evidences of structure, development, palaeontology, distribution and variation, and the facts of natural selection, inheritance, mutation and orthogenesis are treated non-technically, with reference to their general bearing. Two hours, first semester. 1914-1915.

9. EMBRYOLOGY. A study of the segmentation and development of the germ layers and early development of the principal structures of the vertebrate body. This is fundamental to a clear conception of many problems in biology. Two recitation and two laboratory periods, second semester. 1914-1915.

10. FIELD ZOOLOGY. An introduction to the life relations of the more common forms, their habits, the identification and classification of important groups. Typical habitats and the forms inhabiting them are studied. The economic importance of certain groups such as insects and birds is of vital interest, and these claim particular attention. The class is limited in number and none should enter without permission from the instructor. Two hours, second semester.

CHEMISTRY

Professor West

1. General Inorganic Chemistry. A beginning course in chemistry open to all students of the College. Two recitations and four hours' laboratory work, first semester.

2. Advanced Inorganic Chemistry. A discussion of some of the more advanced problems and theories together with suitable laboratory experiments. Two recitations and four hours' laboratory work, second semester.

3. Qualitative Analysis. This course deals with the separation and identification of the constituents of chemical compounds and mixtures by both the wet and the dry methods. Reference texts, Morgan's Qualitative Analysis and West's Laboratory Outlines. One recitation and six hours' laboratory work, first semester.

4. Quantitative Analysis. Quantitative determinations are made to find the per cent of elements and compounds present in commercial products, ores, minerals, etc., by both gravimetric and volumetric methods. The making of solutions of known value and the calibrating of apparatus. One recitation and six hours' laboratory work, second semester.

5. Organic Chemistry, Aliphatic Compounds. A study of the text, lectures and laboratory work in making synthetic preparations such as ethers, chloroform, ethyl bromide, acetal, chloride, methyl amine, etc. Text: Perkin and Kipping's Organic Chemistry and Cohen's Practical Organic Chemistry, with laboratory outlines. Two recitations and four hours' laboratory work, first semester.

6. Organic Chemistry, Aromatic Compounds. A continuation of Course 5. Laboratory work in preparing such aromatic compounds as nitrobenzene, phenyl bromide,

sulphanilic acid, aniline, malachite green and experiments with certain carbohydrates. Text, same as in previous course. Courses 5 and 6 constitute a year course in Organic Chemistry. Two recitations and four hours of laboratory work, second semester.

7. PLANTS AND SOILS. A course consisting of labortory work, with a large amount of library reference work and the preparing of a thesis upon some practical subject that has a bearing upon plant life or soil fertility. Open only to those who have had courses 1 to 6 inclusive. One recitation and four hours' laboratory work, first semester.

8. FOODS AND NUTRITION. A course similar to course 7 but along the lines of foods and nutrition. A study of the elements found in foods and their relations to the health and proper nutrition of the body. Open only to those who have had courses 1 to 6 inclusive. One recitation and four hours' laboratory work, second semester.

9. CHEMISTRY OF THE HOUSEHOLD. A course of lectures with some laboratory work for the women of the college who are taking other groups than VII or VIII. Students taking Groups VII or VIII may elect this course provided they have had course 1, and receive two-thirds' credit. The course is a required subject for Freshmen in the Kindergarten Training Course. It is open to all women of the College and requires no previous knowledge of chemistry. Two lectures and two hours' laboratory work, second semester.

Courses 1, 2 and 5, 6 are year courses and no credit is given unless the full year's work is completed.

The courses should be taken in the order in which they appear.

ECONOMICS AND SOCIAL SCIENCE

Professor Mitchell

1. Principles of Economics. This course is designed to cover the more important portions of the general field of economics. The student is expected to assimilate the general principles of the subject and to be able to apply them to the discussion of practical questions. An excellent library of economics, containing all the important treatises in English on the subject, is at hand, and students are required to use it freely. Three hours, first semester.

2. Money and Banking. A discussion of the theory and history of money and banking with special reference to the United States. The gold standard; bimetallism; fiat money; our present currency, with proposed changes; functions of a bank; first United States Bank; second United States Bank; our present national banking system; our state banks; the Bank of England; Bank of France; Reichsbank of Germany; are some of the subjects considered. Three hours, second semester. 1913-1914.

3. Principles of Taxation. The historical development of taxation; a study of the different kinds of taxes, as the general property tax, the single tax, inheritance tax; taxation of corporations; double taxation, together with reforms in taxation. Three hours, first semester. 1914-1915.

4. Corporations. A study of modern industrial combinations, their history in the United States from the pool to the trust and holding company. Typical cases are studied and principles deduced therefrom. Greene's Corporation Finance and Ripley's Trusts, Pools and Corporations are used as textbooks. Three hours, second semester. 1914-1915.

5. Principles of Sociology. An advanced general course. It includes an analysis and classification of social

facts; discussion of the principles of social theory and the process of socialization; study of social feeling, public opinion, and organized action; an inquiry into the causes of emotional epidemics, panics, mob violence, revolutions; an explanation of the growth of public opinion on great questions; an attempt to show from history and current events that public action is governed by definite laws of social change. Giddings' Principles of Sociology is used as a text. Three hours, second semester. 1913-1914.

ENGLISH

English Language and Literature

Dr. Blaisdell and Mr. Warner

1. (a) Theme Writing. Careful consideration of the form and theory of the business letter; character development; forms of expression; environment; subordination; contrast; written conversation; visualization; power of words; book reviews. (b) Continuation of theme work; the short story; the essay; the oration; the reading of standard literature as out-of-class work. Required of Freshmen. Three hours throughout the year.

The following courses are elective:

2. English Literature before Shakespeare. Special attention to Beowulf and the works of Chaucer and Spenser. Two hours, first semester. 1913-1914.

3. Shakespeare. The reading of perhaps twenty plays. Three hours, second semester. 1913-1914.

4. Elizabethan Literature. A study of the leading writers, other than Spenser and Shakespeare, of the Elizabethan Age. Two hours, second semester. 1914-1915.

5. Milton. Two hours, first semester. 1914-1915.

6. Famous Biography. A study of several of the greatest biographers in the language and of a large number of volumes of current biography and of brief magazine biographies. The course aims to interest young people in the reading of biography. Two hours, first semester. 1913-1914.

7. Eighteenth Century Literature. This course includes the beginnings of the English novel. Two hours, second semester. 1914-1915.

8. Nineteenth Century Poetry. A study of the chief poets, except Tennyson and Browning. Three hours, first semester. 1914-1915.

9. Nineteenth Century Prose. A study of several of the prose writers who made this century famous. The development of the novel during this century will be considered in this course. Two hours, second semester. 1913-1914.

10. Tennyson. Three hours, second semester. 1914-1915.

11. Browning. Three hours, first semester. 1913-1914.

12. American Classics. A study of the style and the literary value of a number of famous American poems, essays, novels, etc. Two hours, second semester. 1913-1914.

13. Contemporary Drama. A study of twenty or thirty dramas written during recent years. Those from foreign languages will be read in translation. Two hours, first semester. 1914-1915.

English Speech

Mr. Warner and Miss Bjoin

1. Principles of Expression. A study of the fundamental principles of public speaking. Training of voice,

mind and body. This course must precede all others in the department. Three hours, first semester.

2. Interpretation. A continuation of course 1. Analysis and interpretation of chosen selections; character study and impersonations. Three hours, second semester.

3. Platform Reading. The preparation and public recital of a program by each member of the class. Selections and cuttings from standard literature. The program may consist of dialect or miscellaneous readings, the monologing of a drama or the dramatizing of a novel. Two hours, first semester.

4. Dramatic Interpretation. A laboratory course in the study and staging of classical and modern drama. Two hours, second semester.

5. Debating. A study of the principles of argumentation, supplemented by debates by the members of the class. Three hours, first semester.

6. Debating. A thorough study and investigation of several questions. Reports and preparation of briefs. Two hours, second semester.

FRENCH

Mrs. Fancher

1. Beginning French. Grammar, dictations from English and French exercises, reading of easy French texts, idioms, pronunciation, French conversation.

Grammar, Francois; Lectures Faciles, Lazare; Contes et Legendes, Guerber; Lectures Faciles, Paul Bercey; Tour de la France, G. Bruno. Four hours throughout the year.

2. Intermediate French. French grammar, dictation, composition, conversation, reading, elementary literature.

Grammar, Francois; Composition, Mansion; Introduction to French Authors, Von Daell; La Poudre aux Yeux, Le Voyage de Monsieur Perichon, Labiche-Martin; Le Monde ou l'on s'Ennui, Pailleron; La Mare au Diable, Sand; Le Pecheur d'Islande, Loti. Four hours throughout the year.

3. ADVANCED FRENCH. Advanced grammar, composition, dictation from idiomatic French conversation, readings from French history, and representative drama and prose.

Grammar, Fraser and Squair; History, Super; L'Avare and Le Bourgeois Gentilhomme, Moliere; Hernani, Hugo; Le Gendre de M. Poirier, Augier; Cyrano de Bergerac, Rostand; Le Cinq Mars, Vigny.

Alternatives will be offered in different years for the reading courses. Four hours throughout the year.

4. GENERAL COURSE IN FRENCH LITERATURE. Pellissier, Lanson, with collateral readings and reports. Two hours throughout the year.

5. CLASSIC FRENCH LITERATURE OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES. Brief History of the French Theatre, selections from Corneille, Racine, Moliere, Voltaire, Le Sage, Beaumarchais. Two hours throughout the year. 1913-1914.

6. LITERATURE OF THE NINETEENTH CENTURY. Romanticism, Naturalism. Two hours throughout the year. 1914-1915.

GERMAN

Miss Haefliger

1. ELEMENTARY GERMAN. Pronounciation, grammar, selections in prose and verse, practice in speaking and writing German. Five hours, first semester.

2. Elementary German. Continuation of course 1. Five hours, second semester.

3. Intermediate German. Selections in easy prose with composition and conversation based on topics drawn from the text. Reviews in grammar. Four hours, first semester.

4. Intermediate German. Continuation of course 3. Four hours, second semester.

5. German Composition. Open to students who have completed courses 1, 2, 3, and 4. Two hours throughout the year.

6. Scientific German. Open to students of the sciences who have had two years of German. Two hours throughout the year. 1913-1914.

7. Two courses are given in alternate years:

a. Modern Prose Writers: Storm, Freytag, Ernst, Hoffman, etc. Three hours throughout the year. 1913-1914.

b. Lessing's Minna von Barnhelm, Schiller's Wilhelm Tell and Maria Stuart, Goethe's Goetz von Berlichingen. Three hours throughout the year. 1914-1915.

If one of these courses is taken after having taken the other, only two credits are given for it.

Advanced Courses. The consent of the instructor is necessary for the election of subjects in this group.

8a. Lessing's Life and Works: Miss Sara Sampson, Emilia Galotti, Nathan der Weise, Hamburgische Dramaturgie, Laokoon. Special attention will be given to the Age of Frederick the Great. Three hours throughout the year. 1914-1915.

8b. Schiller's Life and Works: Fiesco, Die Jungfrau von Orleans, Essays, Die Braut von Messina, Wallenstein. Special attention will be given to the Thirty Years' War. Three hours throughout the year. 1915-1916.

8c. GOETHE'S LIFE AND WORKS: Dichtung und Wahrheit, Werther, Egmont, Iphigenie, Tasso, Hermann und Dorothea. Special attention will be given to the Period of Revolution. Three hours throughout the year. 1913-1914.

Students may elect a second course under 8 with a credit of only two hours.

9. FAUST. Two hours throughout the year. 1914-1915.

10. HISTORY OF GERMAN LITERATURE. Two hours throughout the year. 1913-1914.

11. TEACHER'S COURSE. A systematic study of grammar and the reading materials now used in the high schools; lectures and discussions on the methods of teaching German. Students will be required to conduct classes in elementary German during the second semester. Two hours throughout the year. 1914-1915.

Students presenting one unit of German should elect course 2.

Students presenting two units of German should elect course 3.

Students presenting three units of German should elect course 4.

Students preparing to teach German are strongly advised to take courses 5, 9, and 10.

A major in German must include one course under 7, one course under 8 and course 10.

GREEK

Professor Ewing and Miss Schultz

1. Elementary Greek. White's First Greek Book. Five hours, first semester.

2. Xenophon's Anabasis. Prose composition. Five hours, second semester.

Courses 1 and 2 are offered to students entering without Greek.

3. The Greek in English. A brief course in the elements of the language primarily for the benefit of scientific students in acquiring a better knowledge of the terminology of science. Three hours, first semester. 1913-1914.

4. Colson's Reader. Selections from Herodotus; Greek literature; prose composition. Four hours, first semester. Prerequisite, course 2.

5. Homer. Book I of the Iliad translated and the forms and metrical peculiarities carefully studied; rapid reading of the most interesting portions of the text with frequent practice in sight translation; topical study of the Homeric Age; Greek literature. Four hours, second semester. Prerequisite, course 4.

6. Lyric Poetry. A study of the various forms of the lyric as a connecting link between the epic and the drama. Four hours, first semester. Prerequisite, courses 4 and 5. 1913-1914.

7. Dramatic Poetry. The reading of selected plays; lectures on the origin and development of the drama; Greek literature. Four hours, second semester. Prerequisite, course 6. 1913-1914.

8. Herodotus, Thucydides, Xenophon. Notes on Greek constitutional development, illustrated by copious readings. Four hours, first semester. Prerequisite, courses 4 and 5.

9. Lysias; Demosthenes. A study of the history and influence of Greek oratory. Four hours, second semester. Prerequisite, courses 4 and 5.

Courses 8 and 9 alternate with courses 6 and 7.

10. Plato; Xenophon. Selections from Plato's Apology, Crito, and Phaedo, and the Memorabilia of Xenophon; outlines of Greek philosophy. Three hours, first semester. 1913-1914.

11. Theocritus; Lucian. Studies in the later literature. Three hours, second semester.

12. Greek Life and Art. A study of the civilization of the Greeks and its influence upon later peoples and times, by means of lectures and supplementary readings, and illustrated by the use of the lantern. A knowledge of Greek is not necessary for this course. Three hours, second semester. 1913-1914.

13. Greek Literature in English. A reading of Greek masterpieces in translation supplemented by lectures on the development of literary form among the Greeks. This course alternates with course 12. Three hours, second semester.

14. New Testament Greek. A careful study of Hellenistic Greek based upon the Gospel of Luke. This course alternates with course 3. Three hours, first semester.

The major in Greek must include, in addition to courses 4 and 5, twelve hours to be selected from courses 6-11, and 14.

HISTORY AND POLITICAL PHILOSOPHY

Professor Mitchell

1. European History. From the Fall of the Roman Empire in the West to the Protestant Revolution. Three hours a week, first semester.

2. EUROPEAN HISTORY. From the Protestant Revolution to the Congress of Vienna, 1815. Three hours, second semester.

3. THE HISTORY OF EUROPE SINCE THE CONGRESS OF VIENNA, 1815. Open to those who have taken courses 1 and 2. Three hours, second semester.

4. HISTORY OF ENGLAND. Political and Constitutional. Three hours throughout the year. 1913-1914.

5. HISTORY OF THE UNITED STATES. Colonial and Revolutionary Periods, 1492-1789. Three hours, first semester. 1913-1914.

6. HISTORY OF THE UNITED STATES. National Development and the Slavery Question, 1789-1861. Three hours, second semester. 1913-1914.

7. HISTORY OF THE UNITED STATES. The Civil War and Reconstruction, 1861-1876. Three hours, first semester. 1914-1915.

8. GREEK HISTORY. From the earliest times to the death of Alexander. Three hours, first semester. 1913-1914.

9. ROMAN HISTORY. From the earliest times to the barbarian invasions. Three hours, second semester. 1913-1914.

10. THE STATE. A discussion of the origin, forms and ends of the State, together with a history of the formation of the Constitutions of England, France, Germany and the United States. Courses 1, 2 and 3 in History should precede this course. Three hours, first semester. 1913-1914.

11. POLITICAL PHILOSOPHY. A history of political theories from Plato to Luther. Open to those who have taken courses 1 and 2 in History. Three hours, first semester. 1914-1915.

12. Political Philosophy. A history of political theories from Luther to Montesquieu. Open to those who have taken course 9. Three hours, second semester. 1914-1915.

13. American Government. An analysis of the nature, structure and working of the Federal Government and a comparison with the English system. Three hours, second semester. 1913-1914.

14. English Government. A study of the English government as it exists today. Three hours throughout the year. 1913-1914.

KINDERGARTEN TRAINING

Miss Robinson and Miss Ward

1. Kindergarten Theory, 1. This course covers a study of the theory of: a. Plays and games. b. Child Study. c. Story work. d. Hygiene. Three hours throughout the Freshman year.

2. Kindergarten Theory, 2. A study of principles as related to the building and carrying out of the kindergarten program is taken up in this course. Also a study of stories and the sources of children's literature. In the latter work, students have practical experience in story telling to children and adults. Prerequisite, Kindergarten Theory 1. Two hours throughout the Sophomore year.

3. Gift Work, 1. The Froebellian gifts are studied with special emphasis on the practical work with the children. Students prepare and present gift plays to the class, which involves criticism and discussion. The first four gifts are covered in the course and it is done in the first year. Two hours throughout the Freshman year.

4. Gift Work, 2. This course is a continua-

tion of Gift Work 1, completing the study of the gifts, and emphasizing the theoretical as well as the practical side of the work. Two hours, first semester, Sophomore year.

5. OCCUPATION WORK, 1. This work covers the traditional Froebellian occupations of sewing, weaving, cutting and folding, clay and color work. Two hours throughout the Freshman year.

6. OCCUPATION WORK, 2. This work covers those phases of handwork known as construction work, raffia and reeds, also the application and use of various other outside materials. Prerequisite, Occupation Work 1. Two hours throughout the Sophomore year.

7. ETHICS, 1. Everyday Ethics by Cabot is used as a basis for the discussion of questions of ethics as related to everyday living. One hour throughout the Freshman year.

8. ETHICS, 2, OR MOTHER PLAY. This course consists of a study of the most typical of the Froebellian mother plays and the ethical as well as educational principles in volved. One hour throughout the Sophomore year.

9. HISTORY OF EDUCATION. A Brief Course in the History of Education, by Monroe, is used as the text. Two hours throughout the Sophomore year.

10. CHILD STUDY. This course presupposes a year and a half in the department and Psychology 1. Fundamentals of Child Study by Kirkpatrick is used as the text. Two hours, second semester, Sophomore year.

11. SONGS AND GAMES. A course in the development of games and in actual participation in them. Kindergarten songs are studied from the point of content, musical construction, and suitability for children. One hour, second semester, Sophomore year.

12. TEACHING. The work in Teaching consists of practical experience in the College Kindergarten, supple-

mented by work in the kindergarten and the first three primary grades of the local public schools. Teachers' meetings, with discussions of the problems involved, are part of this work. Six hours throughout the year.

On the completion of the above courses and the required college work, consisting of two semesters of English, three of Science and one of Bible, the student is granted a state life Kindergarten certificate.

Students desiring further study may continue, with the emphasis laid upon the department work, for one more year, at the end of which a certificate will be given.

The following courses are for third-year students:

13. FROEBEL'S EDUCATION OF MAN. One hour throughout the year.

14. FROEBEL'S MOTHER PLAY AND HENDERSON'S CHILDREN OF GOOD FORTUNE. One hour throughout the year.

15. PEDAGOGY. Advanced story work with the emphasis on analysis and story-telling. Dewey's Pedagogical Creed and Interest as Related to Will are the lines of this work. One hour throughout the year.

16. SCHOOL MANAGEMENT. Two hours, one semester.

17. HAND WORK. Advanced construction work. Two hours, second semester.

18. THEORY AND PRACTICE. This work involves more advanced program work and the management of the entire kindergarten. Seven hours throughout the year.

Upon the completion of a fourth year, made up of work in majors and advanced college electives, the degree of B. S. will be conferred.

LATIN

Professor Ewing and Miss Schultz

A. Elementary Course. 1. Lessons. 2. Caesar. Course A covers the work of the two units of language required for entrance to college or to the law or medical school. Five hours throughout the year.

B. Intermediate Course. 1. Cicero. 2. Vergil. Course B is offered to those who have had two or three years of Latin and wish to prepare themselves to enter course 3 in one year. Five hours throughout the year.

Courses A and B are given in alternate years.

3. Cicero De Senectute. Inflections and word analysis; reading of selections from Ennius, Lucretius, Vergil, Sallust; Roman Literature of the Republic. Four hours, first semester.

4. Livy, Book XXI. Review of syntax; a play of Terence for reading at sight; topography of Rome. Four hours, second semester.

5. Horace. Odes and selections from the Epodes; study of the style and qualities of Horace; social and political conditions of the Augustan Age; Literature of the Augustan Age. Three hours, first semester.

6. Pliny's Letters. Selections from Martial, Tacitus, Suetonius; Silver Age Literature. Three hours, second semester.

7. Roman Drama. Plautus, Terence, Seneca. Three hours, first semester.

8. Roman Philosophy. Lucretius, Cicero, Seneca. Three hours, second semester.

9. Roman Satire. Horace, Persius, Juvenal. Three hours, first semester.

10. ROMAN ELEGY. Catullus, Tibullus, Propertius. Three hours, second semester.

11. ROMAN LITERATURE IN ENGLISH. An outline course of readings in the best translations, offered primarily to non-classical students. Three hours, first semester.

12. ROMAN LIFE AND ART. Private life of the Romans; lectures and readings, illustrated by the lantern. This course does not require a knowledge of Latin. Three hours, first semester. Alternates with 11.

13. TEACHER'S COURSE. A careful study of portions of Caesar; review of elementary Latin grammar, pronunciation, etc.; methods of the work of the first and second years of Latin study. Two hours, second semester.

14. TEACHER'S COURSE. A careful review of one oration of Cicero and one book of the Aeneid, with special attention to forms and syntax, and versification; methods of teaching third and fourth year Latin. This course alternates with course 13. Two hours, second semester.

MATHEMATICS

Dr. Notestein

A PRELIMINARY COURSE. This course is given for the benefit of all students who do not take college algebra and who desire to take work in science. The course will include such subjects as percentage, involution, evolution, quadratic equations, and logarithms. Two hours, first semester.

1. COLLEGE ALGEBRA. This course includes logarithms, progressions, binomial theorem, undetermined coefficients, series and the solution of higher equations. Four hours, first semester.

2. PLANE AND SPHERICAL TRIGONOMETRY. In this course special attention is given to the functions of angles,

the transformation of trigonometric expressions, Napier's rules of circular parts, the solution of problems and the application of spherical trigonometry to astronomy. Four hours, second semester.

3. ANALYTICAL GEOMETRY.

(a) This course deals with the straight line, and the conic sections. Three hours, first semester.

(b) Deals with higher plane curves, the general equation of the second degree and geometry of three dimensions. Three hours, second semester.

The object of these courses is to familiarize the student with the methods of analytical reasoning.

4. SURVEYING. This is an elementary course open to students who have taken courses 1 and 2. Two hours, with field work during the spring term, second semester.

5. (a) DIFFERENTIAL CALCULUS. This course includes a study of the rules and formulae for differentiation, expansion of functions, indeterminate forms, application of calculus to curves, maxima and minima. Five hours, first semester.

(b) INTEGRAL CALCULUS. This course includes a study of the methods of integration, the application of integral calculus to curves, areas, volume, moment of inertia, pressure, etc. Five hours, second semester.

6. AN ADVANCED COURSE. Selected to suit the needs of the class; open to students who have taken courses 5a and 5b. Five hours. 1914-1915.

7. ANALYTICAL MECHANICS.

(a) This course treats of the fundamental principles of mechanics, the composition and resolution of forces, center of mass, friction, virtual velocity, machines, attraction, rectilinear and curvilinear motion. Five hours, first semester. 1913-1914.

(b) This course treats of the laws of motion, central forces, vis viva, impact, work and energy, moment of inertia, rotary motion, motion of a system of rigid bodies in space. Five hours, second semester. 1913-1914.

PHILOSOPHY AND RELIGION

Dr. Clizbe and Dr. Randels

1. LOGIC. The principles of inductive and deductive reasoning are studied. The laws of thought and forms of argument are carefully explained and applied in the detection of fallacies in reasoning. Three hours, second semester.

2. THEISM. Three hours, first semester.

3. ETHICS. A discussion of the moral basis of conduct with application to the problems of life. Three hours, second semester.

4. HISTORY OF PHILOSOPHY. An outline study of the various schools of philosophical thought from the Greeks to the present time. Three hours, first semester.

PHYSICS

Dr. Notestein

1. MECHANICS, ACOUSTICS AND OPTICS. This course treats of the fundamental principles of mechanics, sound and light, and includes a study of physical measurements, machines, the laws of motion, friction, work and energy, gravitation, the properties of solids, liquids and gases, wave

motion, nature and propagation of light, reflection and refraction of light, photometry and illumination, the phenomena of color and wave length, nature of elastic bodies, forced vibrations and resonance, properties of musical sounds, laws of vibrating strings and wind instruments, with laboratory work. Three hours, first semester.

2. HEAT AND ELECTRICITY. The object of this course is to familiarize the student with the fundamental principles and laws of heat, magnetism and electricity. It includes a study of the nature of heat-effects, sources of heat-energy, mechanical equivalent, specific heat, molecular changes, transformation of heat energy, the general properties of magnets and magnetic fields, terrestial magnetism, static electricity, general properties of electric changes, electric potential and induction, electric conduction, electric measurements, electric appliances, electricity harnessed, with laboratory work. Three hours, second semester.

3. AN ADVANCED COURSE IN MECHANICS, SOUND AND LIGHT. Open to students who have completed courses 1 and 2. It includes a study of the properties and conservation of matter, kinematics, sound sensation, tones and noises, the physical theory of music, architectural acoustics, dispersion of light and spectrum analysis, polarization and double refraction, with laboratory work. Three hours, first semester.

4. AN ADVANCED COURSE IN HEAT AND ELECTRICITY. Open to students who have completed courses 1, 2 and 3. It embraces a study of the kinetic theory of matter, thermodynamics, calorimetry, the liquefaction and solidification of gases, radioactivity, electric statics, electro-kinetics, thermo-electricity, electro-magnetic mechanics, determination of electric constants, with laboratory work. Three hours, second semester.

PHYSICAL TRAINING FOR WOMEN

Miss Bjoin

The demand for physical education is rapidly growing. It has become a self evident fact that properly directed exercise will bring us to a normal state, giving health, development, control, freedom, grace, and poise.

The graded course of regular class work, which is offered to and required of every woman student, covers two years of training, for which two hours' credit is given for satisfactory work done. The classes meet three times a week, and the course consists of drills in Spanish and German gymnastics, floor work (dumb-bells or wands), apparatus work (horse, ladder, parallel bars, etc.), the Emerson system of psycho-physical exercises, games, rhythm, and national dances.

The purpose of the course is to improve the organs of the circulatory, respiratory, and digestive systems; to give perfect control to voluntary motion by training the body to obey the commands of the will with the least waste of energy. Relaxing and breathing exercises bring rest to the over-tired nerves. In order to secure the proper position, to correct the bad posture, round shoulders, flat chest, etc., it is necessary to give special prescriptions of corrective exercises. An examination is made when the pupil arrives, and exercises are prescribed by the instructor to correct any irregularity or weakness in development noted at the time.

A special class in rhythmic movement, which consists of harmoniously combined movements of all the members of the body executed to music, is provided for and required of students of the music and kindergarten departments.

These co-ordinated exercises give a rare buoyancy and lightness of the figure, with bodily control which results in unity of action, in poise, freedom and grace, and at the same time furnishes exercise sufficiently vigorous to stimulate the vital organs to increased activity.

Aside from the required work, various sports and games are encouraged in season. During the winter a regular schedule of class basket-ball games is played to decide the class championship of the college. In the spring and fall months special attention is given to tennis and outdoor sports. The regular tournament deciding the college tennis championship is held in May.

All students taking the work are expected to wear the regulation suit, which consists of a blouse and bloomers made of black material, preferably brilliantine.

PHYSICAL TRAINING FOR MEN

Mr. Bleamaster

Special attention is given to the health and physical welfare of the men of the College. In order to help towards this end, physical training work has been put on a credit basis, two hours' work being required of each student before graduation.

During the spring and fall months, outdoor work is emphasized through competition for positions on the various teams, namely, football, baseball, track, tennis, and cross-country running. These teams are open to all, and every one is urged to take part in some one of them.

During the winter months, from November 1st to April 1st, regular gymnasium practice is required of all Freshmen and Sophomores.

This work consists of two hours of class work each week, regular class periods being scheduled for this purpose. The work is divided into two grades, that for Freshmen consisting of marching, calisthenics (both free hand, dumb-bells, Indian club and wand drills) and also of the simpler apparatus work on the horse, the bars and the ladders. The second year men, and those judged by the instructor to be more proficient in that line of work, are given more advanced training in calisthenics and heavy apparatus and are also given practice in leading the other classes.

The work is planned so that every man in the Freshman or Sophomore class, not excused by the Faculty upon the recommendation of the athletic director, must be engaged during a part of his college year in some form of athletics.

The ultimate aim of athletic instruction in Alma is not the creation of a few stars, but the development of the individual so that he will become more efficient physically.

In the fall, students who are not on the football squad must engage in cross-country runs at least three times a week. In the spring, they must take up either baseball, track, or tennis. This is required as part of the regular work.

An incidental fee is required of each student, which gives him use of a private locker and all the privileges of the field and gymnasium, and also admits him free to all athletic contests.

Students who are below grade in more than three hours' work cannot compete in any intercollegiate contest, and students who are below grade in more than two courses must drop out of all athletic teams until their work has been made up.

At the beginning of each semester the student will be subjected to careful physical examination and measurements. Exercises in the gymnasium will then be prescribed which are appropriate for his needs.

PSYCHOLOGY AND PEDAGOGY

Dr. Randels

1. General Psychology. The purpose of this course is to interest the student in the study of himself. The textbook work is supplemented by simple experiments designed to give the student first-hand information and to promote independent work. Three hours, first semester.

2. General and Educational Psychology. Continuation of course 1 with especial attention to those parts of Psychology which have the widest application to education. Three hours, second semester.

3 and 4. History of Education. An outline of the development of educational theory and practice in the light of economic, social, political, philosophical, and religious conditions at different ages. Two hours through the year.

5. General Principles of Method. Selection and arrangement of subject matter, the doctrine of interest, the formal steps, and the preparation of lesson plans, classroom management. Two hours, second semester.

6. Child Study. The stages of development in the child from infancy to maturity with special reference to instincts, growth of the body and nervous system, and mental changes. One hour, first semester.

7. Principles of Education. Principles contributed by biology, psychology, sociology, and philosophy which appear to be the foundations of modern education. Two hours, first semester.

8. Comparative School Systems. Points of resemblance and difference in the school systems of England, Germany, and the United States. Two hours, second semester. 1914-1915.

9. School Administration. A consideration of such

problems as: school architecture and equipment; text books; cost of education; school records; consolidation; compulsory attendance; promotion of pupils; discipline; medical inspection; units of school administration; certification; functions of school board, superintendents and principals; teachers' meetings; student organizations. Two hours, first semester. 1914-1915.

10. PSYCHOLOGY AND PEDAGOGY OF EXCEPTIONAL CHILDREN. It includes methods of diagnosis, the Binet tests of intelligence, physical tests and measurements, heredity, natal influences, accidents, diseases, etc. Two hours, first semester.

Graduates from any of the College groups of study who complete not less than eleven hours of the above courses in addition to course 1 will be recommended by the faculty to the State Board of Education for a teacher's certificate which will enable them to teach in the public schools of Michigan without examination.

The School of Music

COURSES OF STUDY

Five courses of study are offered: Pianoforte, Voice Culture, Pipe Organ, Violin and Public School Music. Upon the completion of any of these courses a certificate will be given.

I. PIANOFORTE COURSE

This course is divided into five grades. The time required for its completion will depend upon the talent and application of the pupil.

Harmony, Musical History and either Voice, Pipe Organ, or Violin, grades I and II, are required. The following list of compositions is suggestive only of the work required, much freedom of selection being exercised to meet the needs of the individual pupil:

GRADE I

Lebert and Stark—Pianoforte School, Part I; Koehler—Practical Method; Loeschhorn, op. 65; Gurlitt, op. 140; Beihl, op. 44; Duvernoy, op. 176; Czerny, op. 39; Sonatinas by Clementi.

GRADE II

Lebert and Stark—Pianoforte School, Part I; Koehler ler, op. 50 and 242; Loeschhorn, op. 66 and op. 52; Concone, op. 24; Bach—Easy Preludes and Fugues; Sonatas by Reinecke, Krause and Clementi; variations by Beethoven.

GRADE III

Czerny—School of Velocity; Heller, op. 46 and op. 47; Bach—Two and three voiced Inventions; Kullak—Octave School, Books I and II; Loeschhorn, op. 67; Sonatas by Haydn and Mozart; Pieces by Hummel, Mendelssohn, Heller, Grieg, Godard, etc.

GRADE IV

Cramer; Czerny—50 Daily Studies; Bach—French and English Suites; Mozart and Beethoven Concertos; Jensen—Studies, op. 32; Beethoven Sonatas; miscellaneous studies and pieces by Moscheles, Tschaikowsky, Schubert, Field, Weber, Moszkowski, Leschetizky, etc.

GRADE V

Czerny, op. 740; Clementi—Gradus ad Parnassum; Bach—Well-Tempered Clavichord; Czerny—Legato and Staccato, op. 335; Tausig—Finger Exercises; Compositions by Schumann, Chopin, Saint-Saens, Liszt and the modern composers.

II. VOCAL COURSE

The aim of this course is the development of the singing voice until it is capable of rendering representative selections from opera, oratorio and song literature. The voice must be produced evenly and freely throughout its range. Forced, throaty, breathy, pinched and otherwise faulty tone production is strongly condemned and avoided. Careful attention is given to adequate breath control, the relaxation of the throat and the centering or ''placing'' the voice in the resonance cavities of the head. Perfect enunciation and intelligent musicianly interpretation of the masterpieces is earnestly striven for.

GRADES I AND II

Diaphragmatic breath control is firmly established. Exercises for the purpose of producing purity of tone, flexibility and a good legato are given. Masterpieces of Vocalization, Books I and II.

GRADES III AND IV

The purity, richness, and range of the voice are carefully developed. Ballads and songs are used extensively. Practice in ensemble, in duet, trio, quartet, choir and chorus is furnished. Masterpieces of Vocalization, Book III.

GRADE V

In this grade artistic development in regard to tone in sostenuto and pianissimo is carried on, the range and volume of the voice is carefully augmented and accuracy and brilliancy in technical execution is further advanced. A repertoire of arias from operas and oratorios, as well as songs for church and concert, is prepared. Masterpieces of vocalization, Book V.

III. PIPE ORGAN COURSE

Students entering this course must have finished the first and second grades in the regular course of pianoforte playing. History and Harmony are required.

GRADE I

Study of Manual Touch, Pedal-playing and Elementary Registration; Dunham's Organ School, Books I, II, III and IV; Stainer's Organ Primer; Whiting's First Studies; Easy Pieces arranged by Shelley, Clark, Barrett, Orem, Warren, etc.

GRADE II

Bach—Vol. I; Rink—Best Organ School; Lemmens—Organ School, Part II; Practical Service Playing; Easy Pieces by Merkel, Dubois, Callaerts, Tombelle, etc.

GRADE III

Bach—Vol. II; Buck—Studies in Pedal Phrasing; Clark—Study of Registration; compositions by Buck, Guilmant, Dubois, Thayer, Lefebure-Wely, Lemaigre, Batiste, etc.

Bach—Vol. III; Mendelssohn—Preludes and Fugues; Sonatas by Mendelssohn, Guilmant, Lachner, Rheinberger, etc. Pieces by Capocci, Smart, Calkin, Widor, etc.

IV. VIOLIN COURSE

This course comprises the study of the Violin, Harmony, Musical History, and Pianoforte, grades I and II.

Ensemble playing is made a special feature. Pupils have the privilege of participating in duets, trios, quartets, rehearsals of the string orchestra class and the pupils' recitals which are given at intervals during the year.

GRADE I

Laoureux, Violin Method, Books I and II. De Beriot, Violin School, Easy Studies and Pieces. Blumenstengel, Scale Studies, Books I and II.

GRADE II

Schradieck, Scale Studies. Studies by Alard, (op. 40, Bks. I and II), Wohlfahrt, Sitt. Selected solos of Dancla, De Beriot and others.

GRADE III

Schradieck, School of Technic, Part III. Casorti, Technics of Bowing. Mazas, Special Studies. Studies by Kreutzer and Alard, op. 16. Violin Sonatas by Haydn, Mozart, Schubert, Gade, etc.

GRADE IV

Remainder of Kreutzer Studies, Nos. 30 to 40. Kneisel, Exercises to follow Kreutzer. Wilhelmy, Exercises in thirds. Fiorillo, 36 Studies "Caprices." Rode, 24 Caprices. Sonatas by Beethoven, Schumann, Grieg, Rubenstein, Sjogren and others. Concertos by Viotti, Molique, Rode and Kreutzer.

GRADE V

Mazas, op. 36, Book III. Artists' Studies. Dancla, op. 73, 20 brilliant studies. Gavinie's 24 Studies. Sevcik, School of Technic, op. I, Part IV. Bach, six Sonatas.

Wieniawski, op. 18. Etude—Caprices. Dont, op. 35. Paganini, 24 Caprices. Concertos by Spohr, Mendelssohn, Beethoven, Bruch, Vieuxtemps, Wieniawski. Concert solos, such as Bruch's Scotch Fantasia, Schnett's 1st Suite. Sonatas by Cesar Franck, Brahms. Violin duets of Viotti, De Beriot and Spohr. Violin quartet in E. minor by Dont, etc.

LITERARY AND THEORETICAL REQUIREMENTS

In addition to private work deemed sufficient by the various teachers, the following literary and theoretical work is required of graduates in Courses I, II, III, and IV.

Harmony (Text by Emery), 8; History of Music (Baltzell), 4; Theory of Music (Elson), 2; Counterpoint and Canon (Ayers), 4; Ear Training (Heacox), 2; Appreciation of Music (Lecture Course), 2; Ensemble, 2; German, 8; French, 8; History, 4; Science, 3; College English, 3.

MUSIC BUILDING

The aim of this course is a good foundation upon which to build the musical education and the forming of a correct musical taste. The time required for the completion of the course depends upon the age and ability of the pupil.

GRADE I

Sight reading, ear training and rhythm work. Five-finger exercises, scale and chord formation, ensemble playing for concentration and time. Stories of the composers. Easy pieces and studies.

GRADES II AND III

Sight reading, ear training, rhythm work. A thorough knowledge of the major and minor scales. Intervals, chord formation, etc. Mason and Wiehmeyer Studies for touch and technique. Studies: Kohler, Loeschorn, Gurlitt, Lambert, Schumann. Pedal study. Ensemble. Lessons in Musical History. For these grades "The Dunning System of Music Study" is used.

GRADE IV

Sight reading, theory, ear training.

"First Studies in Music Biography" (Tapper). Studies by Lambert, Czerny, Heller, Loeschhorn, Schumann. Leschetizky technique.

GRADE V

Sight reading, ear training, theory, continued. The Faelton System for memory work and transposing. Leschetizky technique. Modern composers. Selected studies from Bach, Haydn, Mozart, Mendelssohn, Czerny, Heller. Ensemble work.

Special Advantages

The following artists appeared under the auspices of the School during the season of 1912-1913:

Marcus Kellerman, Bass-baritone.
Iva Bigelow-Weaver, Soprano.
Edward Walker, Tenor.
Charles S. Wengerd, Baritone.
Carl E. Craven, Tenor.
Esther May Plumb, Contralto.
Alice Genevieve Smith, Harpist.
William Richard Waghorne, Organist.
Earl R. Drake, Violinist.

The College Choral Club, of one hundred voices, welcomes singers with good voices and ability as sight readers. The Club presents two works each year with the assistance of prominent soloists. This season Cowen's ''Rose Maiden'' and Mendelssohn's ''Elijah'' were presented.

A Chorus Choir at the Presbyterian Church is under the direction of Mr. Veatch. Students who qualify may obtain valuable experience in solo, quartet, and choir singing by uniting with the organization.

The College Glee Club is an organization of young men. A home concert and a road tour are undertaken each season.

Weekly students' recitals are held, thus giving students ample opportunity for public appearance. A recital is given each semester by the faculty of the School of Music.

The College Orchestra meets regularly during the year, and has for its object the study and presentation of standard orchestral music. The orchestra accompanies the Choral Club at its public concerts.

General Information

SUGGESTIONS TO APPLICANTS FOR ADMISSION

The requirements for admission to the College are presented on pages 13 to 15. For an understanding of the nature and scope of the courses of study of the College, the applicant should study the description of courses presented on pages 19 to 47. The Table of Contents at the end of this Catalog will direct him to the page on which each subject is treated.

New students should arrive the Monday before the opening of a semester, so as to conclude all necessary arrangements. Young women may go directly to Wright Hall and consult the Dean of Women. Young men should come at once to the President's office.

ADMISSION AND DISMISSION

Applicants for admission to any department of the institution will first report to the President for registration. They must present testimonials of good character, and those who are from other institutions of learning must furnish certificates of standing and of honorable dismissal.

All students admitted to the institution will be on probation for the first three months. If during this period a longer stay is by the Faculty deemed inadvisable in the case of any student, he may be so informed privately and permitted to withdraw. Any student may at any time be privately dismissed if the Faculty deem his further connection with the school undesirable. All students entering the College accept these conditions of matriculation.

Any student against whom there are no unpaid bills nor charges of misconduct is entitled to an honorable dismissal.

STUDIES AND EXAMINATIONS

No student may take up a study out of the order prescribed in this Catalog nor drop a study once entered upon without the consent of the committee on schedules.

No student is allowed to take less than 15 nor more than 18 hours of work without special permission. An applicant for this permission must have maintained an average of 90 per cent in the work of the previous semester.

Students whose class-work in the current semester averages below B or who have more than two conditions, are not allowed to represent the College as delegates to conventions or as members of debating, oratorical or athletic teams.

Examinations are held at the close of each semester and at intervals during the semester at the discretion of the instructor. The results of examinations are reported to parents and recorded for future reference. In case of Freshmen a report of class standing is sent also at Thanksgiving recess and at the spring vacation.

If at any examination the standing of a student is unsatisfactory, he shall be duly informed and notice shall be sent to his parents or guardian. If there is no improvement, the student may be dismissed from college.

Conditions must be removed within one year from the time of the examination.

DEGREES AND CERTIFICATES

The degree of Bachelor of Arts is conferred upon graduates from Group I; that of Bachelor of Philosophy upon graduates from any of the Groups II to VI, and that of Bachelor of Science upon graduates from Group VII or VIII and the four years' Kindergarten Training Course.

The Bachelor's degree will not be conferred upon a student unless he has been in residence during the year immediately preceding his graduation.

A Master's degree in any of the above-mentioned groups will be given to graduates of at least two years' standing who have pursued advanced studies under the direction of the Faculty, and given sufficient evidence of adequate attainments, including the submission of a satisfactory thesis.

Students who complete the prescribed course in the Kindergarten Department or the Music School, will receive certificates of the fact.

RULES FOR CLASSIFYING COLLEGE STUDENTS

1. For Sophomore standing a minimum credit of 35 hours is required; for Junior standing, 65 hours; for Senior standing, 105 hours.

2. No student shall be classified as a Sophomore who has any entrance conditions; or as a Junior, who has any Freshman conditions; or as a Senior, who has any Sophomore conditions.

COLLEGE BUILDINGS

There are at present six buildings on the College campus: the Recitation Building, Wright Hall, the Library, Hood Museum, the Gymnasium, and Pioneer Hall. In addition may be mentioned the building containing the central heating plant.

RECITATION BUILDING

The Recitation Building contains the College offices, the Chapel, numerous recitation rooms and laboratories, rooms for the Art and Music schools, and halls for the Zeta Sigma and Phi Phi Alpha literary societies.

WRIGHT HALL

Wright Hall, the home provided for the young women through the munificence of the late Ammi W. Wright, in architectural appearance and in adaptation to its purposes is not excelled by any building of its kind in the country. It is built of paving brick trimmed with stone, and is four stories in height above the basement, which is constructed of field stone. The interior finish is very pleasing and the arrangements for the comfort of the occupants are complete. Great care is being taken to surround this noble edifice with a fit setting of greensward, shrubbery and trees, that it may typify to coming generations of college students the ideal college home.

It is desirable that young women should live at Wright Hall, which is under the immediate supervision of the Dean. She is directly responsible for the government of the young women and will assign them their rooms and have the general supervision of their personal habits and activities. The young women are organized for self-government under the guidance of the social committee of the Faculty. They make and enforce their own regulations.

Parents and guardians are invited to communicate freely with the Dean touching the interests of their daughters and wards, thus enabling her to understand and meet the peculiar needs of each student.

Girls under sixteen years of age will not be received, except by special arrangement.

At the time of application for admission a deposit of $5.00 must be made by each student in order to secure a room. This sum will be credited on the first semester's bill or will be refunded if the student decides to withdraw, provided notice is sent a month before the beginning of the college year.

The rooms are single or arranged in suites and are furnished with single enameled couch bed and springs, felt mattress and pad, pillow, oak dresser, wash-stand with crockery, study table, bookcase, chairs and window shades. Each student must furnish her own towels, two pairs of sheets and pillow-slips, blankets or comforts, floor coverings and such conveniences and adornments as may be desired.

The price of single rooms is from $1.00 to $1.75 a week, according to size and location, the most of them being $1.50 a week. A deposit of 50 cents is required for keys, which is returned on surrender of keys.

Table board is $3.25 a week. The price may vary as necessity requires. Meals are sent to rooms only in case of illness. For this an extra charge is made.

Wright Hall will be closed during the vacations.

Any young woman wishing to enter the institution should make application to the Secretary of the College at an early date, giving age and stating wishes as to room, courses of study, etc.

LIBRARY

The Library building contains the stack room, with shelving for 22,000 volumes, the large and well-lighted reading room and the Librarian's office. It is built of red brick trimmed with stone, is handsomely finished in hardwood, and is in all respects well adapted to its particular use.

In the Library building, besides the General Library, are the following special collections:

(1) The Pollasky Law Library.

(2) The Lucy Plum Mitchell Library of History and Political Economy.

(3) The Sarah H. Lancashire Library of Fiction.

(4) The Arthur Hill Library of Lincolniana.

(5) The Joseph W. Ewing Memorial Library of Pedagogy and Education.

(6) The Mary C. Gelston Library of Latin Language and Literature.

(7) The David M. Cooper Memorial Library of Ethics and Theology.

These collections contain 24,637 volumes and a valuable collection of pamphlets. There has been an increase of 259 volumes during the past year.

The collection embraces a great variety of works in Classical, English and Foreign Literature, in Biography and History, in the various Sciences and Arts, and is exceptionally well furnished with encyclopedias and complete sets of American and European reviews. They are classified and arranged according to the Dewey system, and an index of authors, titles and subjects places the contents of the Library at the command of all who are in search of information upon any subject.

Immediately adjoining the Library room is the Reading room, supplied with cases of reference books and the leading journals and periodicals of this country and England.

The Law Library, the gift of Marcus Pollasky, of Chicago, consists of 782 volumes, and, occupying a separate alcove, is, during library hours, accessible to members of the bar, who are cordially invited freely to avail themselves of its privileges.

The Library of Lincolniana, the gift of the late Hon. Arthur Hill, of Saginaw, fills a large case in the Reading room.

Both the Library and the Reading room are open every week-day during the term from 8 a. m. to 12 m. and from 1 p. m. to 5 p. m.; Saturday from 9 a. m. to 12 m., and from 1 p. m. to 5 p. m.

Students may examine and use the books and periodicals during library hours, and may draw one book at a time to be taken away and returned in one week, and, if renewed, one week longer. Other persons are allowed to use the Library and Reading room freely, and on payment of an annual fee of $1.00 are permitted to draw books on an equal footing with the students. Transient visitors in town are charged twenty-five cents per month. Resident ministers of the gospel and their families are permitted to draw books free of charge.

During the past year the Library has received gifts of books and magazines from the following:

Francis H. Dodds, Walter B. Barrows, Geo L. Raymond, U. S. Government, State, H. P. Wood, A. L. Barton, A. Gehring, J. Anderson, Ralph Ely, Ypsilanti Normal, John Marchmont, Princeton Seminary, Prudential Insurance Co., Slason Thompson, Albert P. Cook, Gospel Trumpet Co., Dr. A. F. Bruske, H. E. Densford, N. Y. Society Library, Harvard University, University of Michigan, Michigan Agricultural College, Pres. J. S. Nollen, Lakeside Publishing Co., Michigan State Library, Joseph B. Greenhut, Library of Congress, A. C. Gaebelein, Interstate Railway Commission.

FRANCIS A. HOOD MUSEUM

The Hood Museum of Natural History, the gift of Mrs. Francis A. Hood, of Saginaw, and Mr. Frank Hood, of Marinette, Wis., was finished and dedicated in June, 1900. It is built of rock-faced paving brick, trimmed with red sandstone. It is two stories and a basement in height, with slate roof, and is one of the finest structures on the campus. It has two large exhibition halls lighted in such a way as to give the largest possible space for the display of the collections. In the basement are storerooms and laboratories for the preparation of specimens, making the building one of the most complete and convenient museum buildings in the state.

In this building it is hoped that the Museum will become to students of Science what the library is to students of Literature and History, and it is proposed to make every specimen in it as accessible for study and comparison as the books in the library are.

The cases in use in the Museum are built of oak, constructed on plans furnished by the U. S. National Museum, and are provided with adjustable shelves, dust and insect-proof doors, etc. At present the geological and mineralogical collections are the only ones systematically installed. Additional cases for the Winchell collection of fossils and for the Albino deer, have been provided through the generosity of Mrs. Francis A. Hood of Saginaw, and Mr. Frank Hood of Marinette, Wis.

The collections in the Museum are:

(1) The Stillwell collection of Michigan birds and animals.

(2) The W. S. Crawford collection of birds.

(3) The Shroyer-Wilcox collection of palaeozoic fossils.

(4) The Alexander Winchell collection of rocks, minerals and fossils.

(5) The general geological and mineral collection.

(6) The general biological collection.

(7) The William S. Cooper collection of shells, minerals, and butterflies.

The Stillwell collection was made by a former resident of Alma, most of the specimens being collected in the vicinity of the College and representing some species now extinct or very rare for this locality. It numbers nearly 300 specimens and was obtained by purchase.

The W. S. Crawford collection was made by the donor in various parts of the United States, and has a variety of rare specimens of birds from Florida, Arizona and Michigan.

The Shroyer-Wilcox collection is a systematic collection of palaeozoic fossils, those of the Cincinnati group of rocks being especially well represented. It is valuable as a supplement to the other collections of fossils in the museum. It was acquired by purchase.

The Alexander Winchell collection is the largest and most valuable acquisition of the museum. The collection is that gathered by Professor Winchell during his long and active life as a geologist and teacher, and contains over 6,000 specimens, many of which were collected in Michigan by Dr. Winchell and described by him. These type specimens have an especial value. The collection was presented by friends.

The general biological collection contains representative vertebrate and invertebrate animal material, most of it yet to be arranged for exhibition, which has been collected during the history of the College. It will occupy the upper hall of the Museum. It is estimated to contain 2,000 specimens.

The general geological and mineral collection is installed in the east end of the lower hall of the museum and numbers 2,500 specimens. It has been obtained largely by small gifts from numerous friends.

THE GYMNASIUM

The Gymnasium building contains the Founders' room (used at present as the studio of the Director of the Music School), the Kindergarten rooms, the Gymnasium and an office. The rooms occupied by the Kindergarten department are large and well-lighted, and in every respect are well arranged for both school and recitation purposes. The Gymnasium occupies the entire upper floor of the edifice, and with its equipment of apparatus, the generous gift of Mr. John W. S. Pierson, of Stanton, Michigan, and Mr. Charles H. Davis, of Saginaw, Michigan, furnishes adequate facilities for athletic training. Here during the winter months, daily classes in physical culture offer to all the opportunity for that systematic training of the body which is so necessary to the health of the student.

PIONEER HALL

Pioneer Hall, one of the two original college buildings, is the dormitory for young men. The building throughout is heated by steam and lighted by electricity. Both shower and tub baths, together with ample toilet conveniences, are provided in the basement. It is hoped that the building will be entirely renovated and re-decorated during the coming summer, thus making it far more attractive.

Students living in the building are loosely organized for student government. They make their own regulations and enforce them, being advised by the president and a faculty committee. This form of government has proven peculiarly satisfactory.

Rooms in Pioneer Hall are provided with bed, springs, mattress, table, chairs, bookrack and commode. Students must furnish for themselves towels, sheets, pillow slips, and blankets. They also pay for laundering these articles. Rooms cost $1 a week each for two occupants in a suite, and $1.75 a week for a single occupant. Upon engaging a room each applicant deposits $2.50 to meet any damages that may be assessed against him. This deposit is returned if for any reason the room should not be desired and due notice is given before August 15th. For his room key each student deposits fifty cents, which is refunded when the key is returned. Young men desiring to engage rooms should address the Secretary of the College.

THE LABORATORIES

The equipment of the Physical Laboratory is ample for experimentation in Mechanics, Hydrostatics, Light, Heat, Sound and Electricity. The Laboratory is supplied with gas, water, tables, and other appliances which add materially to its facilities for scientific work.

A fine projecting and reflecting lantern has been added to the equipment of the Laboratories.

The Biological Laboratory is furnished with all necessary apparatus for thorough and practical work. The equipment consists of a sufficient number of compound and simple microscopes, microtomes, paraffin bath, air and water nets, collecting boxes, etc., for individual field and laboratory work.

The Chemical Laboratories occupy the entire basement of the east wing of the recitation hall.

The General Laboratory is fitted up with tables, apparatus and chemicals, and will, as arranged at present, accommodate twenty-four students. Each desk is supplied with gas and water, re-agents and necessary apparatus. Particular attention has been given to procuring apparatus for hastening tedious processes as much as possible, and to convenience of arrangement.

The Quantitative Laboratory is equipped with three fine weighing balances, blast lamps and combustion and crucible furnaces, and is provided with a large ventilating hood.

The Organic Laboratory has a good ventilating hood, balance, hot air and water ovens, Kieldahl's apparatus for the determination of nitrogen, fat extractors, a polariscope, and such other apparatus as is required for its work.

The Chemical Department also possesses a fine spectroscope and a sufficient amount of miscellaneous apparatus for thorough, practical work. A reference library consisting of some of the latest chemical books, is kept in the Laboratory for the use of students.

DAVIS ATHLETIC FIELD

The generosity of Mr. Charles H. Davis, of Saginaw, provided the College in 1902 with a modern athletic field. About five acres of the campus not far from the Gymnasium was perfectly graded, drained, surrounded with a high board fence, and equipped with football field, baseball diamond, quarter-mile cinder track, bleachers, and a grand stand. Water mains bring running water to the Field. Outside the Field are several tennis courts. In 1912 Mr. Davis added an imposing entrance gate, which renders the Field one of the most attractive as well as one of the most adequate among the college fields of the Middle West.

RELIGIOUS ORGANIZATIONS

Throughout its history the students of the College have maintained a Young Men's and a Young Women's Christian Association. The members of these organizations strive to meet new students upon their arrival at Alma and to assist them in registering, in finding rooms, and in becoming comfortably located. At the opening of each semester they hold social affairs for the purpose of promoting acquaintance. A union religious meeting is held on Wednesday evenings and separate meetings on Sundays. These meetings aim to develop true manliness and womanliness and to make clear that real religion is a thing of works as well as of faith. The organizations maintain voluntary Bible classes and send out leaders to organize and conduct mission Sunday schools. A band of Student Volunteers to mission work is regularly maintained. The Associations unite with the Faculty in conducting special meetings during the college week of prayer. Together they brought Dr. J. R. Thomas, of

Westminster Church, Grand Rapids, to the College in February, 1913. Dr. Thomas spoke eight times to the students and held private conferences with many individuals. His work united with that of the Associations in emphasizing in the College a type of Christian fellowship and of mutual service that makes religion an affair of the classroom, of the athletic field, and of the dormitories, as well as of the prayer meeting. Christian manhood and womanhood is the aim of these Associations. Consequently they appeal to practically every student that comes to Alma.

DIVISIONS OF THE COLLEGE YEAR

For purposes of administration and instruction, the year is divided into semesters of eighteen weeks each, the first opening about the middle of September, the second shortly after the first of February. The usual holiday and spring vacations divide the year into three terms of about twelve weeks each.

For the dates of the opening and the closing of terms and semesters, see Calendar at the beginning of this Catalog.

ORATORY AND DEBATES

Alma College is a member of the Michigan Inter-Collegiate Oratorical Association, which conducts two contests, one for men and one for women, on the first Friday in March of each year. The college is also a member of the Alma-Hope-Olivet League and of the Alma-Michigan Agricultural College-Ypsilanti League, and meets each of these colleges in debate annually. Preliminary trials to decide upon contestants in the different competitions are scheduled during the year as follows:

Freshman Exhibition	First Friday in November
Men's Oratorical Contest	First Friday in December
Women's Oratorical Contest	Second Friday in December
Prohibition Contest	Third Friday in February
Women's Reading Contest	Third Friday in April

Conspicuous among the local oratorical events is the Chicago Medal Contest in Oratory, held on the first Friday in May. Gold medals are awarded to the winner of this contest, and to the representatives of the college in all inter-collegiate oratorical and debating events. The management of these local contests is under the charge of the local Oratorical Association and the Debating League.

LITERARY SOCIETIES

Two literary societies, Zeta Sigma and Phi Phi Alpha, are conducted by the young men of the College, and three, Alpha Theta, Philomathean and Froebel Club, by the young women. The aim of these societies is the development of a correct literary taste and of the power of precise and ready expression.

THE HONORS SYSTEM

Under the new plan of marking, provision is made for the recognition of excellence in scholarship through a system of honor-points corresponding to the standings received. The letters used in marking, with their values in honor-points, are as follows: A, 6; A –, 5; B, 4; B –, 3; C, 2; C –, 1; D, 0; E, –1; F, –2.

The minimum number of honor-points required for graduation is 80; for third honor (cum laude), 120; for second honor (magna cum laude), 160; for first honor (summa cum laude), 200.

COLLEGE PUBLICATIONS

Alma College Bulletin is published by the College on the first and third Tuesdays of each month. This publication aims to keep alumni, schoolmen, high school students and friends in touch with the work, the progress, the needs, and the prospects of the College. It is sent without charge to all who may apply, either for single issues or for a place on the permanent mailing list. The College Catalog makes one of the February issues.

The Almanian is the student publication and is issued weekly during the college year. It is conducted by a board of editors who aim to make it a faithful reflector of college life in all its phases, as well as a consistent supporter of the interests of the institution from the standpoint of the student body.

THE CLASSICAL CLUB

The Classical Club is conducted by the students of the Ancient Languages under the supervision of the instructors in Greek and Latin. The aim of the Club is the promotion of an interest in classical literature and archaeology. Meetings are held twice a month during the college year.

THE SCIENCE CLUB.

The Science Club was organized for general scientific research and for study in particular of the plants, animals and geology of the region in which the College is located. Meetings are held twice a month during the college year.

THE EUTERPE MUSICAL SOCIETY

This society is conducted by the members of the School of Music, who meet at regular intervals during the college year for the study of the lives and works of the masters in music.

AID FOR STUDENTS

Students of limited means who expect to complete a regular college course at Alma can usually obtain reasonable aid upon application to the President, who will bring their cases to the consideration of the Committee on Aid to Students. This committee administers an all too small Aid Fund. Students partaking in this fund are expected ultimately to return the amount which they have received unless they enter into a life work which is so purely missionary as to render such return a burden. No interest is asked, although in the past beneficiaries have at times preferred to pay interest.

Generous minded friends, even though they can give but little, can scarcely do better with their gifts than to add them to this Student Aid Fund.

Students preparing for the ministry of the Presbyterian Church can secure as much as $100 a year from the Board of Education, if they need help and if they are recommended by their home Presbytery.

The children of home and of foreign missionaries are granted scholarships yielding $30 per year when they are regular students of the College.

The College has thirty-nine permanent scholarships, most of which yield $30 per year, besides a varying number of annual scholarships supported by Alma alumni organizations, by individuals, and by churches. These scholarships are administered, in varying ways, by the faculty committee. A few are annually assigned to high schools to be granted at the option of the high school faculty. A few go to persons designated by the donors. Others are granted on a basis of excellent class work. Most, however, are awarded to students of promise who have real need of help. Young men receiving scholarships are expected to abstain from the use of tobacco, while all thus aided are expected to return to the college through help rendered a part of the value of the scholarship received, unless specifically excused because of exceptionally exacting duties. Scholarships are usually granted for a year. They may be withdrawn, however, at the end of the first semester if recipients fail to do satisfactory work.

Scholarships thus administered become a help to the college as well as to the student. The demand for scholarships is regularly greater than the supply. Friends, Sunday schools, churches, woman's clubs, or other organizations interested in helping young people, are invited to correspond with the President with reference to assuming a scholarship or part of a scholarship.

A number of students can usually find employment in the homes, stores, hotels, or boarding houses of Alma. The College too is at times able to give work to some young men and young women. Students having a hundred dollars with which to begin a freshman year can usually complete a college course without interruption, provided they have health, energy, and a willingness to do faithful work.

PERMANENT SCHOLARSHIPS

Permanent scholarships, most of them representing an endowment of $500 and yielding $30 per year in tuition, have been made available by generous friends of youth and of the College. The scholarships thus held are as follows:

Name.	Donor.
Mrs. C. P. Colvin	Mr. C. P. Colvin, Saginaw
Thomas Merrill	Mr. Thomas Merrill, Saginaw
Memorial Presbyterian Church	Rev. D. M. Cooper, Detroit
Laurense	Mr. Leonard Laurense, Detroit
Martha P. Seeley	Mr. John F. Seeley, Caro
Harry G. Kelton	Mr. and Mrs. John M. Kelton, W. Bay City
Charles D. Chatfield	Mr. Clarence B. Chatfield, Bay City
Lucy Plum Mitchell	Prof. Jas. E. Mitchell, Alma
Louis Penoyer, Memorial	Mrs. Emeline Penoyer, Saginaw
Edith M. Davis	Mrs. Edith M. Davis, Saginaw
Alba A. Lull	Mr. Alba A. Lull, Pontiac
Martha B. Heartt	Mr. William A. Heartt, Caro
William A. Heartt (four)	Mr. William A. Heartt, Caro
First Presbyterian Church, Saginaw	First Presbyterian Church, Saginaw
David M. Ladd, Memorial	U. P. and C. Church, Milford
Marion H. Plum	Mr. J. H. Plum, Indianapolis, Ind.
Helen Anderson Tanner	Mr. M. W. Tanner, Saginaw
Watson B. Robinson	Mr. James W. Robinson, Alma
Theodore D. Marsh	Rev. Theodore D. Marsh, D. D., Grand Rapids
Harriet Barton Wright, Memorial	Mrs. J. H. Lancashire, Alma
Margaret N. Thorburn	Mr. Jas. T. Thorburn, Detroit
John Cameron	Trumbull Ave. Presbyterian Church, Detroit
J. Ambrose Wight	First Presbyterian Church, Bay City
Katherine M. Inglis	Mr. Thomas Merrill, Saginaw
Brownell	Mrs. Mary E. D. Brownell Estate, Detroit
William E. Rohlfs	Many friends
Grace Church, Saginaw	Mr. Thomas Merrill, Saginaw
Francis King	Mr. Francis King, Alma
M. S. Smith	Mrs. Helen Smith Deming, Detroit
Hazel B. Garland	Mr. Arthur Garland, Howell
Nathan B. Bradley	Elmer E. and Fred W. Bradley, Bay City
Horace B. Silliman	Dr. Horace B. Silliman, Cohoes, N. Y.
John P. Cleaveland	First Presbyterian Church, Detroit
Westminister Presbyterian Church	

....................Westminister Presbyterian Church, Bay City
Rachel W. Pierson..............Mr. John W. S. Pierson, Stanton
Mary H. Plum........................Mrs. P. H. Bruske, Detroit
and Miss Florence Plum, Cleveland, O.

ANNUAL SCHOLARSHIPS

Between March 1, 1912, and February 28, 1913, the following annual scholarships and parts of scholarships have been received by the College:

Adrian, $3.00; Albion, $30.00; Detroit, Bethany, $30.00, Jefferson Ave., $30.00, Scovel Memorial, $30.00; Marlette, First, $15.00; Pontiac, $30.00; Saginaw, Warren Ave., $30.00; Mrs. W. L. Curtis, Petoskey, $30.00; Mrs. Louisa Y. King, Alma, $30.00; Mr. Fred R. Perry, Detroit, $30.00; and Mr. S. J. Service, Detroit, $30.00.

HONOR SCHOLARSHIPS

The Silliman and Brownell Scholarships, each amounting to $50 in tuition, are to be awarded annually to a young man and a young woman in the Junior class, of Christian character and high ideals, who have the highest scholarship records, as determined by honor points, in the studies of the Freshman and Sophomore years.

PRIZES

Greek Prize. The income of the Justin Marsh Fund is hereafter to be awarded each year to the best scholar in New Testament Greek.

Oratorical Prizes. The Rev. W. S. Mason, pastor of the First Presbyterian Church, Alma, offers a gold and a silver medal, to be awarded annually to the young men winning first and second places in an oratorical contest, the contest to be conducted under these conditions:

1. There must be at least six contestants.

2. The contest must take place before the Christmas holidays.

3. The winner of the first place may not enter the contest a second time. He may, however, challenge the winner to determine which of them shall represent the college at the state contest.

EXTENSION WORK

The College has established an Extension Division, which includes (a) Saturday and evening work in Alma and in adjoining communities; (b) Correspondence work; (c) Lectures in convenient communities; (d) Lyceum courses made up of lectures, musical entertainments, and readings. A special bulletin is issued containing full particulars concerning this work. Those interested are invited to ask for a copy.

As part of this work the Library offers its services to high school instructors who are helping students in the preparation of debates and of orations. This service is without charge. The Library also will lend books to ministers who are reading along special lines, the only charge being the payment of postage. Suggestions relative to helpful books will be made to those who apply. For this service address Librarian Alma College, Alma, Mich.

A Summer Session will be held from June 21 until August 1, 1913, if the plans now under consideration are carried out. Any interested are asked to apply for the special bulletin.

EXPENSES

WRIGHT HALL.

Board, $3.25 per week, for the year	$117.00
Room rent, for the year	$36.00 to 72.00

PIONEER HALL.

Room rent, one in a room, for the year	63.00
Room rent, two in a room, for the year, each	36.00

COLLEGE.

Tuition bill $20.00, for the year	40.00

MUSIC SCHOOL.

Lessons in Voice—With Director.

One thirty min. lesson a week, per semester	$18.00
Two thirty min. lessons a week, per semester	30.00
Three thirty min. lessons a week, per semester	40.00

With Assistant.

One thirty min. lesson a week, per semester	$12.00
Two thirty min. lessons a week, per semester	22.00
Three thirty min. lessons a week, per semester	32.00

Lessons in Pianoforte, Pipe Organ and Violin.

One thirty min. lesson a week, per semester	$15.00
Two thirty min. lessons a week, per semester	25.00
Three thirty min. lessons a week, per semester	35.00

With Assistant.

(Same rates as with Assistant in Voice.)

Harmony, per semester	$ 8.00
History, per semester	6.00
Theory of Music, per semester	5.00
Ear Training, per semester	4.00
Counterpoint and Canon, per semester	5.00
Preparatory or Music Building, per term of six weeks, two lessons a week	6.00

Classes in Sight Reading and Musical Appreciation are free to all students. Reasonable fees for piano rental. Small fee for Choral and Glee Clubs.

OTHER CHARGES.

Matriculation fee (paid but once)	$ 5.00
Incidental fee, per semester	5.00
Diploma fee	5.00
Certificate fee	1.00
Laboratory fee, Chemistry, per semester	5.00
Laboratory fee, Biology, per semester	3.00
Laboratory fee, Physics, per semester	2.00

REMARKS

Students taking one to five hours per week, pay no incidental fee; those who take from six to nine hours per week, pay $2.50 per semester; those who take ten or more hours per week, pay $5.00 per semester.

Music students taking at least two lessons a week, are allowed to take work in College classes to the extent of five hours a week without extra charge.

Tuition bills in all departments must be paid by the semester in advance, and board at Wright Hall and room rent in either dormitory, by the month in advance.

In the College the regular expenses for the year are about $240, distributed thus: Tuition, $40; incidental fees, $10; room rent, $36; table board, $117; books, $20; laundry, etc., $17. For rent, board, books, laundry, etc., much more may be spent, while some students will spend somewhat less. Personal expenses will be what the habits of the student demand.

Some students pay their room rent by caring for the furnace and by doing other work in private homes; some earn board or both room and board by work in hotels, restaurants, and boarding houses. Many are paid for Saturday work in stores and elsewhere. The student having $100 can come to Alma with confidence that he can get through a college year and a college course, if he is willing to work hard. For young women the opportunities are less numerous than are those for young men, but many young women are earning a large part of their expenses.

ALUMNI ASSOCIATIONS

CENTRAL ASSOCIATION

President	William H. Long, '98, Ithaca
Vice-President	Harry A. Craig, '09, Charlevoix
Secretary-Treasurer	Sadie Messinger, '03, Alma

The Association was formed by the class of '91. It has had a vigorous growth and has come to be regarded as an important and influential college organization. All alumni and former students of the college are eligible to membership. Its annual meeting is held on the Wednesday of Commencement Week, which has been designated as Alumni Day.

ALUMNI CLUB OF CHICAGO

President	James L. McBride, '04
Vice-President	A. John Van Page, '97
Secretary-Treasurer	James Wight

Next annual meeting, February 21, 1914.

ALUMNI CLUB OF DETROIT

President	Wallace F. Webber, '03
Vice-President	Arthur R. Moon, M. D.
Secretary-Treasurer	Lillian Jackson

ALUMNI CLUB OF NEW YORK

President	Watson B. Robinson, '01
Vice-President	Israel Himelhoch
Secretary-Treasurer	E. Blake McDonald

ALUMNAE ASSOCIATION OF THE KINDERGARTEN TRAINING DEPARTMENT

President	Mrs. Kate Coddington, '93, Detroit
Vice-President	Mrs. Harriet Hudson, '03, Alma
Secretary-Treasurer	Miss Edna Swigart, '01, Alma

DEGREES CONFERRED

At the Commencement of the College held June 13, 1912, the following degrees were conferred, except that the degree granted the Reverend Jay Clizbe was conferred at the Inauguration exercises on October 11, 1912:

HONORARY DEGREES

The Degree of Doctor of Laws Upon

Chase Salmon Osborn............Sault Ste. Marie, Mich.
Governor of Michigan
John Moore..........................Saginaw, Michigan
James Morrison Barkley, D. D.........Detroit, Michigan
Pastor of the Forest Avenue Presbyterian Church

The Degree of Doctor of Divinity Upon

Daniel Stalker............................Calumet, Mich.
Pastor of the First Presbyterian Church
Marcus Scott...........................Berlin, Ontario
Pastor of the Presbyterian Church
Richard Turnbull....................Cambridge, N. Y.
Pastor of the Presbyterian Church
Jay Clizbe..................................Alma, Mich.
Professor of Biblical Literature, Alma College

The Degree of Master of Arts Upon

Ambrose B. Wight.........................Chicago, Ill.
Principal of the Talcott School

Winifred E. Heston, M. D................Jhelum, India
Medical Missionary in the U. P. Hospital

Mary Olive Hunting......................Indianola, Iowa
Professor of Latin, Simpson College

DEGREES UPON EXAMINATION

The Degree of Bachelor of Arts Upon

Robert Howard Cook	Alma
Gladys Leona Gorton	Gregory
William Young Pohly	Elkton
Carrie Louise Rowland	Hesperia

The Degree of Bachelor of Philosophy Upon

Louanna Dorothy Baker	Midland
Eleanor Bittner, *magna cum laude*	Alma
Vinnie Cecile Booth	Alma
Laura Alice Brown, *magna cum laude*	Alma
Loretta Blanche Clum, *cum laude*	Alma
Ruth Elizabeth Hovey	Howell
Hattie Belle Mills, *cum laude*	Alma
Carrie Elizabeth Neilson	Kalamazoo
Anna Laura Sebring, *magna cum laude*	Alma

The Degree of Bachelor of Science Upon

Foster Allen Fraker	Alma
Robert Frank Hume, *cum laude*	Morenci
Leon William Lauderbach, *cum laude*	Cass City
Gail Enid Peacock	Evart
Ernest Wilburn Sebring, *cum laude*	Alma

COLLEGE HONORS

At the Commencement of 1912 it was announced that College Honors had been earned as follows:

Valedictory	Anna Laura Sebring
English-Modern Language Group	Anna Laura Sebring
English-Latin Group	Eleanor Bittner
English-History Group	Laura Alice Brown
Mathematics-Science Group	Ernest Wilburn Sebring
Chemistry-Biology Group	Robert Frank Hume

CERTIFICATES GRANTED

At the Commencement of 1912 Certificates were granted as follows:

A State Teacher's Certificate To

Louanna Dorothy Baker, Eleanor Bittner, Vinnie Cecile Booth, Laura Alice Brown, Loretta Blanche Clum, Ruth Elizabeth Hovey, Hattie Belle Mills, Carrie Elizabeth Neilson, Anna Laura Sebring, Ernest Wilburn Sebring.

A State Kindergarten Certificate To

Sadie Beatrice Crawford	Sault Ste. Marie
Elizabeth Kinsman Crossen	Calumet
Mabelle Lillian Dean	Brown City
Joyce Rhoda Fairweather	Imlay City
Helena Brown Gilray	Sault Ste. Marie
Edith Taft Hagedon	Algonac
Neva Ollie Jenkins	Harbor Springs
Nina Elizabeth Lewis	Chicago, Ill.
Eva Luella McBain	McBain
Lula Lucile May	Stockbridge
Purl Irene Moreland	Caro

A Certificate in Music To

Katharine May DeVries (Voice and Public School Music) ....Grand Rapids
Theo Maud Amsbury (Voice)..................Elwell

A Certificate from the Academy To

Viviane Berkeley Miller........................Detroit
Bernice Amanda Miller.........................Detroit

FORM OF BEQUEST

Item—I hereby give and devise to Alma College, situated in Alma, Gratiot County, Michigan, the sum of ....dollars.

The Register of Students

THE COLLEGE

Seniors

Over one hundred credits.

Margaret Pollock Boag.................................Calumet
Latin and French.

George Joseph Brilmyer.................................Milford
Mathematics and Biology.

Marion Beryl Broderick.................................Detroit
English and French.

Susie Lute Brown...Farwell
English and Latin.

Andrew Clifford Edgerton...............................Cass City
Chemistry and Biology

William Arthur Ewing............Alma
Latin and Greek.

Wade Lawrence Frost............Tecumseh
Chemistry and Biology.

Clara Elizabeth Hanel............Elk Rapids
English and History.

William Allen Hooper............Alma
Latin and Greek.

Emily Maud Hooper............Alma
English and Latin.

Marion Easter Hartness............Ashland, Wis.
Pedagogy and English.

Leon A. Kolvoord............Allegan
History and Economics.

John Lee D. B. Landon............Detroit
Latin and Greek.

Bernice Edna Latson............Howell
Latin and German

Oral Mirvin Meisnar............East Jordan
Political Science and Oratory

Chalmers A. Monteith............Martin
Mathematics and Chemistry

Marguerite Rachel O'Neill............Sault Ste. Marie
English and Latin.

Ruth Marian Robbins............Iron Mountain
Mathematics and Biology.

Marian Rounsifer ....Howell
Mathematics and Chemistry.

Claud Webster Satterlee............Detroit
Mathematics and Chemistry.

Della Struthers ....Pontiac
English and French.

Edward Archibald Thompson............Caseville
History and Economics.

Rex Edward Van Duzen............Breckenridge
Chemistry and Biology.

Lester Von Thurn .... St. Louis
Latin and Greek.

Bernice Walker .... Alma
English and French.

JUNIORS

Emily Eleanor Beach .... Detroit
English and History.

Ruth Mary Cook .... Alma
Latin and Greek.

Celia Creaser .... Alma
English and History.

Joyce Rhoda Fairweather .... Imlay City
Kindergarten.

Theodore Shirley Higbee .... Alma
Mathmatics and Chemistry.

Milo A. V. Hogan .... Detroit
Latin and Greek.

Bertha Belle Hubbell .... Alma
English and History.

Carroll C. Hyde .... Addison
Chemistry and Biology.

Fred Samuel Johnson .... Cadillac
History and Oratory.

Alice Virginia Kennedy .... St. Louis
English and Latin.

Joseph Leroy Kennedy .... Chicago, Ill.
History and Economics.

F. Roy Phillips .... Shabbona
Mathematics and Biology.

Verne E. Rogers .... Tecumseh
History and Economics.

Walter Albert Vogt .... Palmyra
Mathematics and Chemistry.

Faith Mabel Welton .... Grand Rapids
Latin and Greek.

SOPHOMORES

Marcella Pauline Adams	Alma
Margaret Bertine Allen	Ithaca
Paul Henry Austin	Monroe
Bess Beatrice Bishop	Charlotte
Josephine Louise Butler	Elk Rapids
Clifford William Carey	Bad Axe
Sidney Perry Cook	Alma
Clyde Jacokes Creaser	Alma
Gladys Noll Dershem	Chicago, Ill.
Albert James Esselstyn	Lansing
Anna Louise Fralick	Flint
Clarence R. Goodrich	Grand Rapids
Rose Carol Gray	Edmore
Esther Halverson	Emerson
Harry Donovan Jackson	Alma
Arden S. Johnson	Hilliards
Bryson A. McCloy	Fairgrove
Otha Evelyn McCracken	Alden
Jean McGill	Marlette
Anna Mabel McNabb	Elkton
Marguerite Mahoney	St. Charles
Rosalie Bendetson Netzorg	Elsie
Alfred Garlock Papworth	Howell
Beulah Parr	Alma
Ralph Edgar Peacock	Evart
Esther Roxana Shepherd	Adrian
Valetta Soper	Alma
Vincent Addison Wilson	Alma
Alger H. Wood	Alma
Earl Wright Woodruff	Howell
Mabel Wyant	Alma
Florence Barlow Younglove	Detroit

FRESHMEN

Oscar M. Anderson	Omena
John Edward Bahlke	Alma
Eva Barnes	Charlotte
Alonzo W. Beshgetoor	Alma
Mary Blaisdell	Alma
Thos. Charles Blaisdell, Jr.	Alma
Gladys Grace Bond	Ann Arbor
Marcia Ann Carl	Howell
Marjorie Ann Chase	Belding
Ralph Chisholm	Breckenridge
Hazel Calvena Clark	Ithaca
Maurice Farrand Cole	Paw Paw
Annawave Coleman	Hastings
June Frances Collins	Howard City
Grant Lyle Cook	Brant
Margaret Ann Duncanson	Cass City
Homer Monroe Dunham	Alma
Ruth Helen Ellis	Holly
Gretchen Eyer	Alma
Leof Fellows	Marlette
Hymie Friedman	Tawas City
Theodore Jay Gates	Vestaburg
Auda Cleo Gill	Pellston
Harold Goetz	Bay City
Florence Henderson	Detroit
Ralph Burten Henning	Bay City
Margaret Ann Hoatson	Laurium
Frances Lucile Holland	Sheridan
Lula Mae Huber	Stanton
Eric Edward Humpsch	Northport
John Milton Jackson	Alma
Ilma E. Johnson	Grand Ledge
Herbert Knowlton	Ithaca
Edna Verbelle Kuhlman	Alma
Frankie L. Kuhlman	Alma

Vernon Cecil Lansing	Bay City
Clare C. Letts	Bannister
Montie McFarlane	Linwood
Arthur John McIntyre	Alma
Hazel Christina McKenzie	Laurium
Marguerite Faith MacNeill	Charlevoix
T. Lucille McQuade	Detroit
Lydia May Malpas	East Jordan
Marguerite Bennett Minchin	Evart
Ethel Grace Moore	Detroit
Stephen Sutherland Nisbet	Twining
Elizabeth Marguerite O'Donald	Howard City
Marion Louise Parsons	Charlevoix
Lila Redmond	Marlette
Madeline Young Reynolds	Lansing
Wilhelmine A. Ritter	New York, N. Y.
Hazel Eugenia Robbins	Iron Mountain
T. Arnold Robinson	Alma
Mathilde Ryan	Alma
Harry John Schultz	Bay City
William Herman Schultz	Bay City
Ruth DeMoss Stacy	Coshocton, Ohio
Ethel Grace Thompson	Caseville
George Carl Titus	Alma
Verne Levi VanDuzen	Breckenridge
Bertha Wagener	Harbor Beach
Beatryce Whitelem	Harbor Beach
Bertha Delena Williams	Bad Axe
Roy Stanley Yerex	Detroit

IRREGULARS

Besvin Anderson	Elk Rapids
C. Bope Butler	Bad Axe
William Thomas Cooper	Alma
Archie Ruben Maybee	Hudson
Fred John Myers	Grass Lake

Fred Porter	Milford
Maurice Lane Rushmore	Old Mission
Arthur H. Simenton	Marlette
G. Gordon Snider	Cadillac
Harold Victor Wilcox	Decatur, Ind.

THE ACADEMY

SENIORS

John Encell Brinkman	Old Mission
Isabel C. Henderson	Cadillac
Harold Dillingham Pierson	Stanton
Ruth Robinson	Traverse City
Ives McCredie	Ithaca

JUNIORS

Ward G. Hodge	Breckenridge

THE SCHOOL OF MUSIC

VOICE

Theo. Amsbury	Elwell
John Anderson	Alma
Mrs. John Anderson	Alma
Oscar M. Anderson	Omena
Margaret Bielby	Lake City
Bess Beatrice Bishop	Charlotte
Charles Bope Butler	Bad Axe
Charles Button	Alma
June Frances Collins	Howard City
Paul Crandell	Alma
Glenn S. Crisp	Alma
Ruth Helen Ellis	Holly

Don Evans	Alma
Joyce Rhoda Fairweather	Imlay City
Wade Lawrence Frost	Tecumseh
Lois Fraker	Alma
Bonnie R. Fuller	White Cloud
Carl Gallagher	Forest Hill
Mrs. Fred Grover	Alma
Ward George Hodge	Breckenridge
Marion Louise Hood	Alma
Leon Kolvoord	Allegan
Harriett McGreaham	Alma
Archie Ruben Maybee	Hudson
Oral Mirvin Meisnar	East Jordan
Adra Alberta Miller	Alma
Harold L. Miller	Alma
Ralph C. Miller	Alma
Roy H. Miller	Alma
Helen Katherine Mitchell	Harrisville
Hira C. Moore	Alma
John A. Mulvey	Alma
Vida Naldrett	Middleton
Rosalie Bendetson Netzorg	Elsie
Helen Parr	Alma
Mrs. Frank E. Pollasky	Alma
Jessie E. Potter	Alma
Mary R. Rose	Ashley
Florence E. Rozema	Britton, S. D.
Olive J. Smith	Alma
Valetta M. Soper	Alma
Leon C. Stinchcomb	Alma
Edward A. Thompson	Caseville
Benjamin H. Tucker	Canton, Ohio
Lester Von Thurn	St. Louis
Harold B. Ward	Alma
Glenn Y. Warner	Alma
Irene Warner	Marlette

Saray Weese	Alma
Beatryce Whitelem	Harbor Beach
A. Witcop	Alma
Earl W. Woodruff	Howell
Verne Wright	Alma

PIANO

Iva Amsbury	Alma
Theo. Amsbury	Elwell
Eva Barnes	Charlotte
Margaret Bielby	Lake City
Rena Bronson	Alma
Margaret Boag	Calumet
Josephine Butler	Elk Rapids
Nellie Chisholm	Breckenridge
Ralph Chisholm	Breckenridge
Ruth M. Cook	Alma
Bonnie R. Fuller	White Cloud
Florence Hammond	Sparta
Margaret Hoatson	Laurium
Lucile Holland	Sheridan
Marguerite Mahoney	St. Charles
Helen K. Mitchell	Harrisville
Mabelle H. Mudge	St. Louis
Jean McGill	Marlette
Vida Naldrett	Middleton
E. Marguerite O'Donald	Howard City
Frank J. Radiz	Alma
Lila Redmond	Marlette
Hazel E. Robbins	Iron Mountain
Ruth Robinson	Traverse City
Mary R. Rose	Ashley
Florence E. Rozema	Britton, S. D.
Juno N. Shepard	Alma
Ruth DeMoss Stacy	Coshocton, O.

Mrs. R. F. Veatch	Alma
Irene Warner	Marlette
Faith M. Welton	Grand Rapids
Mabel A. Wyant	Alma

VIOLIN

Clifford Cummings	Alma
Marie Haefliger	Alma
Ward G. Hodge	Breckenridge
Thelma Lindsay	Alma
David Mindel	Alma

MUSIC BUILDING

Mrs. J. E. Allen	Alma
Granville Andrus	Alma
Norma Atkinson	Alma
Robert Baker	Alma
Louise Barstow	St. Louis
Ruth Bennett	Alma
Katherine Branch	St. Louis
Norman Branch	St. Louis
Hazel Faunce	St. Louis
Lucile Gardner	Alma
Ruth Halverson	Emerson
Marian Hartness	Ashland, Wis.
Wilma Hildreth	St. Louis
Dorothy Jackson	Alma
Milton Jackson	Alma
Russell Johnson	Alma
Florence Kaufman	St. Louis
Mildred Kress	Alma
Marie Knudson	Alma
Woodburn Lamb	Alma
Marjorie MacCurdy	Alma
Caroline Melchers	Alma

Madeline Miller	Alma
Susan Miller	Alma
Allen Moore	Alma
Mrs. R. E. Munson	Alma
Frank Notestein	Alma
Robert Notestein	Alma
Bernice O'Melia	St. Louis
Francis O'Melia	St. Louis
Ivah Perrigo	Forest Hill
Frances Priest	Alma
Kenneth Priest	Alma
Helen Sharrar	Alma
Esther Rhodes	Alma
Helen Selby	North Star
Melba Spinney	Alma
Louise Tuger	St. Louis
Howard Wilson	St. Louis
Robert Wilson	St. Louis
Nellie Wilson	St. Louis
Dean Wright	Alma

THE SCHOOL OF ART

Mary Blaisdell	Alma
Margaret Bielby	Lake City
Encell Brinkman	Old Mission
Nellie Chisholm	Breckenridge
Florence Henderson	Detroit
Ralph Henning	Bay City
Carroll C. Hyde	Addison
Clare C. Letts	Bannister
Fred John Myers	Grass Lake
Elizabeth Marguerite O'Donald	Howard City
Harold Dillingham Pierson	Stanton
Margaret J. Strudwick	Bad Axe

EXTENSION WORK

VOICE

Marie Behrens	Ithaca
Agnes Curtis	Edmore
Effie M. Curtis	Edmore
Mrs. Clyde Daniels	Ithaca
Mrs. Myrle DuPont	Ithaca
Audry Graham	Ithaca
James E. Harding	Vestaburg
Mrs. P. A. Gilleo	Ashley
Paul Harrod	Ithaca
Arthur Hornbeck	Vestaburg
Goldie Kille	Ithaca
Ila M. Kirby	Ashley
Ivah Krome	Cedar Lake
Esther L. Lewis	Ithaca
Lucile Long	Ithaca
Lorena Moore	Breckenridge
E. H. Morton	Ithaca
Minnie O'Brien	Edmore
James O. Peet	Ithaca
Clyde Pinney	Ithaca
Etta Rowe	Ithaca
Ruby P. Stinchcomb	Breckenridge
Floyd Thomas	Ithaca
Ellen L. Vroman	Edmore

PIANO

Iva Ash	Ithaca
Elsie Barden	Ithaca
Flossie Beechler	Ithaca
Marie Behrens	Ithaca
Mrs. H. T. Blank	Ithaca
Bernice Brooke	Ithaca
Jennie Coman	Breckenridge

Alton Corwin	Ashley
Grace Falor	Breckenridge
Mrs. Laura Gibbs	Edmore
Mrs. P. A. Gilleo	Ashley
Ila M. Kirby	Ashley
Edith M. McCormack	Ithaca
May L. McCormack	Ithaca
Howard Moore	Breckenridge
Lorena Moore	Breckenridge
John F. Pobanz	Ashley
Helen B. Russell	Ashley
Mildred Stevens	Ithaca
Wretha Stone	Ashley
Lota P. Thomas	Ithaca
Thelma L. Turner	Ashley
Mrs. Ida Waters	Ithaca
Wilma M. Willoughby	Ithaca

VIOLIN

Madeline Alt	Mt. Pleasant
Ralph Bush	St. Louis
Mrs. Oscar Bush	St. Louis
Vivern Buckborough	Mt. Pleasant
E. E. Burdick	Mt. Pleasant
Kenneth Burdick	Mt. Pleasant
Frank C. Cowdrey	Mt. Pleasant
Mrs. Austin Davison	St. Louis
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Wright Harrison	St. Louis
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Vera Wilkinson	St. Louis

ART

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Rena F. Reeves	St. Louis
Catherine Blanche Wynne	Alma

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Supt. T. E. Johnson	Onaway
Frances M. Stitt	Alma
Mrs. Kathryn Vanderhoff	Carson City

PSYCHOLOGY

Mildred Elizabeth Allen	Clinton

SUMMARY

The College	146
The Academy	6
The School of Music	123
The School of Art	12
The College Extension Work	67
	354
Names counted twice	44
The Total Attendance for the Year	310

CONTRIBUTIONS

FROM MARCH 1, 1912, TO MARCH 1, 1913

The following Presbyterian Churches have contributed to the Endowment of the Chair of English Bible and Theism: Adrian, $16.00; Allegan, $13.00; Bay City, First, $14.51; Benton Harbor, $6.00; Big Rapids, Westminister, $6.00; Brighton, $3.00; Brooklyn, $10.00; Calumet, $20.00; Cass City, $4.00; Centerville, $5.00; Coldwater, First, $10.00; Detroit, Cadillac Ave., $2.00; Calvary, $15.00; Church of The Covenant, $10.00; Forest Ave., $13.33; Fort Street, $50.00; Jefferson Ave., $58.00; Memorial, $37,00; Scovel Memorial, $25.00; Second Ave., $7.98; Woodward Ave., $50.00; Deerfield, $1.00; East Jordan, $12.00; Evart, $4.50; Flint, $56.00; Flynn, $6.00; Grand Haven, $17.00; Grand Rapids, First, $48.50; Westminster, $36.75; Grayling, $11.79; Harbor Beach, $8.00; Highland Park, $21.30; Hillsdale, $15.00; Holly, $6.00; Homer, $1.25; Houghton, $5.00; Howell, $16.25; Holt, $3.47; Ida, $4.00; Iron Mountain, $2.00; Ithaca, $16.80; Jackson, $15.00; Kalamazoo, First, $25.00; Lake City, $1.00; Lamotte, $5.00; Lansing, Franklin Ave., $20.00; Ludington, $2.50; McBain, $3.00; Marlette, Second, $7.00; Mason, $5.00; Milford, $2.00; Midland, $16.00; Monroe, $25.00; Mt. Clemens, $6.00; Mt. Pleasant, $7.50; Mundy, $7.00; Munger, $1.76; Palmyra, $5.00; Petersburg, $3.00; Petoskey, $25.00; Plainwell, $6.00; Plymouth, $10.00; Port Huron, $2.00; Redford, $5.00; Saginaw, First, $42.59; Washington Ave., $6.00; St. Louis, $2.50; South Barnard, $5.00; South Lyon, $5.00; Spring Lake, $3.00; Sturgis, $3.00; Taymouth, $3.00; Three Rivers, $6.00; Vassar, $4.00; Wyandotte, $10.00; Ypsilanti, $15.00. Also John N. Arbuckle, Benton Harbor, $3.00; Mrs. William Ruth, Benton Harbor, $1.00.

To the Mary C. Gelston Latin Library the Alumni Association gave $300.00, and Mrs. Maud H. Clark, of Harbor Springs, gave $10.00.

Mr. Charles H. Davis, of Saginaw, gave $500.00 for an ornamental gate to Davis Field.

To the Oratorical Association: John W. S. Pierson, Stanton, gave $15.00; Robert S. Tracy, Sturgis, $10.00; Rev. Louis S. Brooke, Howell, $10.00; Prof. Elmer A. Lyman, Ypsilanti, $10.00.

For Miscellaneous Purposes, gifts as follows were received: George J. Acker, St. Louis, $1.00; Norman H. Angell, Baltimore, Md., $5.00; Henry Irwin Armstrong, Detroit, $10.00; Mrs. J. W. Bernard, St. Louis, $1.00; A. E. Branch, St. Louis, $1.00; Rev. John Y. Brook, Plainfield, N. J., $1.00; C. B. Chatfield, Bay City, $5.00; C. F. Eddy, Bay City, $20.00; Cora Belle Flint, Chicago, $5.00; "A Friend," New York, $25.00; Ira M. Hatch, Wilmette, Ill., $2.50; J. H. P. Hughart, Grand Rapids, $10.00; Prof. Mary O. Hunting, Indianola, Iowa, $5.00; Elizabeth Jones, La Mesa, Calif., $2.00; Willis T. Knowlton, Saginaw, $20.00; Jas. H. Lancashire, Detroit, $25.00; Alice Rebecca Marsh, Detroit, $2.00; Sadie Messinger, Alma, $1.00; J. Boyd Pantlind, Grand Rapids, $50.00; Rev. Harry E. Porter, Zanesville, O., $1.25; Alfred F. Pratt, Batavia, N. Y., $1.00; John F. Seeley, Caro, $10.00; P. M. Smith, Alma, $5.00; Rev. Daniel Stalker, Calumet, $5.00; M. B. Stevens, Detroit, $10.00; Louise T. Strange, Jackson, $5.00; M. W. Tanner, Saginaw, $5.00; J. M. Thurber, Detroit, $5.00; Winifred G. Trapp, Alma, $1.00; Rev. A. John Van Page, Chicago, Ill., $5.00; Carl H. Washburn, Alma, $5.00; R. H. Webber, Detroit, $25.00; Ambrose B. Wight, Chicago, Ill., $1.00; G. H. Whitney, St. Louis, $5.00; Mrs. Sarah H. Lancashire, Detroit, $34.00.

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1913-1914

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ALMA
COLLEGE

Catalogue
1913-1914

Announcements
1914-1915

ALMA, MICHIGAN

Calendar

1914

April	7	Tuesday	Third Term begins, 8 A. M.
June	5	Friday	Freshman Exhibition.
June	8	Monday	Final Examinations begin.
June	14	Sunday	Farewell Communion, 10 A. M.
			Address before Christian Ass'ns, 3 P. M.
			Baccalaureate Sermon, 7:30 P. M.
June	15	Monday	Class Day.
			Class Day Exercises, 8 P. M.
June	16	Tuesday	Annual Concert, 8 P. M.
June	17	Wednesday	Alumni Day.
			Meeting of Alumni Ass'n, 1 P. M.
			Senior Promenade, 8 P. M.
			President's Reception, 8:30 P. M.
June	18	Thursday	Commencement Exercises, 10 A. M.
			Commencement Luncheon, 1 P. M.

SUMMER VACATION

June	22	Monday	Summer Session begins.
July	31	Friday	Summer Session ends.
July	20–26		Training School for Christian Workers.
July	20–August 1		Graduate School for Ministers.
Sept.	15	Tuesday	Matriculation.
Sept.	16	Wednesday	First Term begins, 9 A. M.
			Opening Address.
Oct.	14	Wednesday	Founders' Day.
Nov.	25	Wednesday	Thanksgiving Recess begins, 4 P. M.
Nov.	30	Monday	Thanksgiving Recess ends, 1 P. M.
Dec.	23	Wednesday	First Term ends, 4 P. M.

WINTER VACATION

1915

Jan.	5	Tuesday	Second Term begins, 8 A. M.
Jan.	19	Tuesday	Mid-year Meeting of Board of Trustees.
Jan.	25	Monday	Semi-annual Examinations begin.
Jan.	29	Friday	First Semester ends.
Feb.	1	Monday	Second Semester begins.
Feb.	4	Thursday	Day of Prayer for Colleges.
March	26	Friday	Second Term ends.

SPRING VACATION

April	6	Tuesday	Third Term begins, 8 A. M.
June	10	Thursday	Commencement.

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THOMAS A. FANNELL, B. M.
Assistant in Voice. 420 Maple Avenue.

THEO M. AMSBURY.
Assistant in Piano.

E. HENRIETTA BJOIN.
Director of Physical Training for Women and Instructor in English. Wright Hall.

WILLIAM C. BLEAMASTER, B. S.
Director of Physical Training for Men and Instructor in Biology. 707 West Center.

LECTURERS

1913-14

AUGUST F. BRUSKE, D. D., LL. D.
Non-resident Lecturer in Philosophy.

ALFRED RAY ATWOOD, A. M.
Non-resident Instructor in Bible School Methods.

MATTHEW B. MCNUTT, A. B., B. D.
Non-resident Lecturer in Rural Church Work, at Summer Conference for Ministers.

CYRUS B. GARDNER, M. D.
Medical Examiner for Gymnasium Work. 420 State Street.

STANDING COMMITTEES OF THE FACULTY

1913-14

Admission and Schedules.
Ewing, Mitchell, West.

Aid to Students.
Blaisdell, Ewing, Cook.

Appointments.
Randels, Mitchell, Robinson.

Athletics.
Randels, Ewing, Bleamaster, Bjorn.

Buildings and Grounds.
Cook, Notestein, MacCurdy, Cornwell.

Commencement Exercises.
Blaisdell, Notestein, Veatch, Robinson.

Curriculum.
Ewing, Mitchell, Randels, West.

Honorary Degrees.
Blaisdell, Mitchell, Notestein.

Graduate and College Extension Work.
Randels, MacCurdy, Veatch, Warner.

Library.
Ewing, Notestein, Miss Cook.

Museum and Apparatus.
West, MacCurdy, Zimmerman.

Pioneer Hall.
Mitchell, Cook, Bleamaster.

PUBLICATIONS.
Blaisdell, Ewing, Cook, Mitchell.

RELIGIOUS EXERCISES.
Blaisdell, Randels, Notestein.

TEACHERS.
Blaisdell, Mitchell, Ewing.

THE PRESIDENT'S COUNCIL

The Dean of the Faculty, the Dean of Women, the Dean of the Summer Session, the Registrar, the Secretary of the Faculty, the Secretary of the College, the Director of the Conservatory of Music.

OFFICERS OF ADMINISTRATION

THOMAS C. BLAISDELL, PH. D. . . . . President
801 West Superior Street.

JAMES E. MITCHELL, A. M . . . . Dean
412 Maple Avenue.

MARIE HAEFLIGER, A. B. . . . . Dean of Women
Wright Hall.

GEORGE B. RANDELS, PH. D. Dean of Summer Session
301 Grant Avenue.

ALBERT P. COOK, A. M . . . . Sec'y and Ass't Treasurer
611 West Center Street.

John T. Ewing, Litt. D. . . . . Registrar
315 Grant Avenue.

Helen B. Cook, A. B. . . . . Librarian
611 West Center Street.

Miss T. Albertson . . . . Matron of Wright Hall
Wright Hall.

Marcia A. Carl . . . . Clerk to the President
Wright Hall.

Wilhelmine A. Ritter . Clerk to Sec'y and Registrar
Wright Hall.

Alma College

LOCATION

The city of Alma, in which Alma College is located, is in Gratiot County, in almost exactly the geographical center of the lower peninsula of Michigan. It is on the division of the Pere Marquette Railway running from Grand Rapids to Saginaw, being about eighty miles from the former city and forty from the latter. It is also on the Ann Arbor Railroad, 145 miles from Toledo and eighty miles from Cadillac. *Alma has no saloons,* Gratiot County having been "dry" since May, 1907.

With paved and well shaded streets, boulevard lighting, a complete sewer system, city water, electric lights, an exceptionally efficient public school system with a new high school building costing $65,000, and with numerous churches, this city of about 3,000 people has proved itself to be an unusually healthful and morally uplifting community to which parents may safely entrust their children or to which they may move for the purpose of educating their children.

HISTORY

On a Sunday evening in 1886 the Rev. J. Ambrose Wight preached a sermon from his pulpit in the First Presbyterian Church of Bay City, in which he emphasized the need of a Christian college in central Michigan. At the close of the service Mr. Alexander Folsom came forward and said to Mr. Wight that he was ready to give $50,000 toward the founding of such a college. On September 28, 1886, the committee of the

Synod met in Alma and received the formal offer of this gift. At the same time Mr. A. W. Wright offered, for the town, a campus on which two buildings for educational purposes had already been erected and furnished, the whole valued at $40,000. Other friends offered to provide for professorships for five years, to add to the endowment, to give toward current expenses, and to provide a library.

The committee made its report to the Synod in the Westminster Presbyterian Church at Grand Rapids on October 14, 1886, with the result that the Synod "Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

The doors of Alma College were opened to students on September 12, 1887. Thirty-four young men and young women registered the first day. The total attendance during the year was ninety-five.

The first president of Alma College was the Rev. George F. Hunting, D. D., who served until April 20, 1891. On June 16, 1891, his successor, the Rev. August F. Bruske, was inaugurated and served in the office until July, 1912. President Bruske signed the diplomas of the members of the first class, which was graduated in 1891, and of every succeeding class to the time of his retirement.

In the summer of 1888 a heating plant was erected; in 1889 a library building was completed; in 1895 the gymnasium was completed; the Hood Museum was dedicated in June, 1900. Wright Hall was completed and opened its doors as the home for young women in 1902. The Davis Athletic Field was graded and inclosed in 1902, while its beautiful entrance gate was erected in 1912.

Alma College has a campus of thirty-six acres. This, with the buildings, is valued at $175,000. The college has an endowment of about $400,000.

The material progress of Alma has been made possible by a host of friends, foremost among whom will always be mentioned Mr. Ammi W. Wright. His total gifts in additions to the endowment, in Wright Hall, in library funds, and in the payment of current expenses aggregate about $400,000. The passing of Mr. Wright on May 5, 1912, was mourned by every friend of the College, and particularly by the thousands of young people who have been blessed in their educational privileges by his liberality.

RECENT IMPROVEMENTS

During the past year many improvements have been made in the College buildings. In the main building the corridors, the chapel, and a number of the recitation rooms have been repainted and redecorated and new electric fixtures have been placed in the chapel and corridors. The kindergarten rooms and the library have been redecorated and a complete electric lighting equipment placed in the latter building. Wright Hall, the woman's dormitory, has been redecorated, while the generosity of Mrs. Sarah H. Lancashire has entirely refurnished with rugs, portieres, hangings, and mission furniture the public reception room and parlors, adding greatly to the comfort and beauty of the rooms. Mrs. Francis King has also provided ample furniture for the great front porch of the building.

Pioneer Hall, the dormitory for young men, has been practically rebuilt from basement to roof. Excellent lavatory facilities, including both tub and shower baths, besides the most modern porcelain wash stands, have been placed in the basement, while a constant supply of hot water is assured by a special heating equipment. Many partitions have been changed, the building has been entirely replastered, and the rooms largely refurnished. A slate roof has replaced the old shingle roof. It is now probably the best dormitory for young men in the State.

Trees and shrubs have been planted the whole length of the athletic field, with the thought of entirely concealing its fence from the street. Several hundred spruce and pine, the gift of the Agricultural College nurseries, have been planted along the west side of the campus. As they increase in size many of them will be transferred to other parts of the campus. The entire campus on both sides of the street has been kept in lawn, and thereby very greatly improved, while beginnings have been made in the matter of parking along West Superior Street. The class of 1913 presented an ornamental gate post to be erected at the east corner of the campus, while its mate for the other side of the highway has been presented by the class of 1903. It is hoped that this work will be completed before Commencement.

These improvements have put the college plant into better shape than it ever has been before. It is the plan of the trustees to continue improvements on the campus, with the thought of adding still more to its beauty.

ADMISSION

Terms of Admission

All applicants must present testimonials of good moral character, and, if from other colleges, letters of honorable dismissal.

The unit of credit for preparatory work is a daily recitation for a school year. Fifteen such units are required for unconditioned entrance to the Freshman Class. It is suggested that they be presented in the following subjects: English, three units; Mathematics, two units; History, one unit; Science, one unit; Foreign Language, two units; Electives, six units.

The six elective units may be selected from the following list of subjects:

Latin—2, 3 or 4 units.
Greek—2 units.
French—2 units.
German—2 units.
English—1 unit.
History—1 or 2 units.
Civics—½ unit.
Physics—1 unit.
Botany—1 unit.
Chemistry—1 unit.
Zoology—1 unit.
Physiography—½ unit.
Elem. Geology—½ unit.
Vocational subjects—1, 2 or 3 units.

In foreign language units in either Latin, Greek, French or German may be offered. All students are advised to offer at least two units in Latin.

Candidates who are deficient in not more than one of the required fifteen units may be admitted conditionally to the Freshman Class, but the condition must be removed before work in majors is undertaken.

Methods of Admission

TO REGULAR COURSES

I. By Certificate

Examinations will be waived in the case of applicants who present certificates of graduation from any accredited high school. Applicants from accredited high schools must send or present in person a full statement by the proper persons of the work done in each study. Blank forms for this purpose may be obtained on application to the Registrar.

Candidates for advanced standing will be examined on the subjects previously studied by the classes they desire to enter, except in the case of undergraduates of other institutions who present letters of honorable dismission and also careful statements, duly verified, of the studies pursued and the credits received therein.

II. By Examination

Examinations for admission will be held on Monday, September 14, 1914, beginning at 10 o'clock a. m. The entrance examinations are designed to test the ability of the candidate to undertake the course of study, and not merely to ascertain the character and amount of his acquired knowledge.

TO PARTIAL COURSES

Students desiring to pursue partial courses in the College *must meet the requirements for admission.* In laying out their work, they are required to consult with the instructors in charge of the subjects they wish to pursue. They will be subject to the same regulations as to College requirements as other students. They will not be regarded as candidates for a degree.

Students of mature years whose preparation for college is irregular are permitted to enter classes for which they are prepared.

THE REQUIREMENTS FOR GRADUATION

The standard unit of credit used in estimating college work is one recitation period a week for one semester, or one "semester-hour." In laboratory courses a two-hour period is considered equal to a one-hour recitation period. One hundred and twenty hours and two hours in Physical Training are required for graduation, making the average requirements per semester fifteen recitation periods a week. The recitation period is 55 minutes in length.

The subjects comprised in the college course of instruction are arranged in groups, each of which contains (a) certain subjects required of all students; (b) two major subjects; (c) general electives, the choice of which is unrestricted.

(a) The required subjects are the following: English, six hours; History, six hours; Science, six to eight hours; Philosophy, six hours; Biblical Literature, eight hours; Physical Training, two hours; Foreign Language, twelve to sixteen hours.

(b) In order to secure to the student the advantage of intensive work, he is required at the opening of the Junior year to choose a group of two major subjects in which he must secure a credit of twenty-four to twenty-eight hours. Certain prerequisite courses must be taken in the first two years of the college course. For the list of groups offered in 1914-1915, see page 18.

(c) The remainder of the one hundred and twenty-two hours may be elected from any of the following departments of instruction of the College, due regard being paid to the limitations imposed by the program of recitations:

Art.
Astronomy.
Biology.
Chemistry.
English.
French.
Geology.
German.
Greek.
History.
Latin.
Mathematics.
Music.
Oratory.
Pedagogy.
Philosophy.
Physics.
Political Economy.

The groups from which the choice of major subjects for 1914-15 may be made are given below:

I. Greek-Latin.
II. History-Economics.
III. English-A Modern Language.
IV. English-Latin.
V. Political Science-English.
VI. Latin-German.
VII. Mathematics-A Laboratory Science.
VIII. Chemistry-Biology.

FRESHMAN YEAR

Required Subjects:

1. College Life, one hour, first semester. Bible 1, two hours, second semester.
2. English, three hours, each semester.
3. A foreign language (usually the one offered for entrance), four hours, each semester.

Optional Subjects:

1. Mathematics or science, four hours, each semester.
2. A second language, mathematics, science, or history, three or four hours, each semester.

SOPHOMORE YEAR

Required Subjects:

1. Bible 2, two hours, first semester.
2. A second year in each foreign language taken in Freshman year, four hours, each semester.

Elective Subjects:

Nine hours in mathematics, history, science, or English, choice to be made from at least two subjects.

The required history and science if not already taken should be included here.

JUNIOR AND SENIOR YEARS

In the work of these years must be included two courses in Bible, two courses in philosophy, and the work in two majors, covering from twelve to fourteen hours each. The remainder of the sixty hours may be taken in general electives.

PREPARATION FOR PROFESSIONAL COURSES

Through the group system Alma College makes provision for a liberal education, as well as special preparation for students who have in mind future professional or technical courses. Professional study is largely a matter of memory unless the student has a knowledge of those subjects which underlie and give meaning to it.

The Ministry. The student who expects to pursue advanced studies in a divinity school, should major in the Greek-Latin group, with electives in philosophy, science and sociology. Other electives to be considered are history, literature, oratory and debating. The minister familiar with the details of athletic training has a distinct advantage in dealing with boys and young men.

Law. The best professional schools make a college course a prerequisite for entrance and all good ones require at least two years of college preparation. The student who expects to enter upon the study of law should do his major work in the History-Economics or the Political Science-English group, with electives in philosophy, mathematics, oratory and sociology.

Medicine. The Chemistry-Biology group offers lines of major and elective work which are especially useful in preparation for the study of medicine. These departments are well equipped with facilities for laboratory work under competent instruction, and offer a wide range of courses to pre-medical students.

Engineering. Students expecting to enter engineering schools should do major work in the Mathematics-Laboratory Science group. This offers a number of courses in the mathematics, sciences and modern languages which form a fundamental part of all engineering courses.

Teaching. The College makes special provision for the needs of prospective teachers, (a) in its pedagogical courses, (b) in its special courses in the methods of teaching specific subjects, (c) in observation work and practice teaching, and (d) in its offer of a State teacher's certificate to those who meet the requirements of the pedagogical course. The student who expects to teach a particular subject should choose it as one of his majors.

Courses of Instruction

ASTRONOMY

Dr. Notestein

The aim of this course is to give the student a general knowledge of descriptive astronomy. The instruction is based upon the use of a text-book, supplemented by lectures and the use of a telescope. Some time is given to the study of the heavens to enable the student to become acquainted with the names and positions of the principal stars and constellations. Two hours throughout the year.

BIOLOGY

DR. MACCURDY

1 and 2. *General Biology.* The work in general biology is designed to give the student a knowledge of the general principles of biology developed from the study of typical forms of plants and animals. It also lays the foundation for more advanced work and helps to a better understanding of life phenomena and the literature which deals with biological subjects. In addition to the general principles, emphasis is laid on the methods of observation and the interpretation of biological phenomena. The course is open to all College students. Two laboratory periods and two recitations throughout the year.

3. *Morphology and General Physiology of Plants.* This course includes a study of plant forms and their development, the development and relationships of the different members of the plant body, plant cells and cell structures, plant tissues and their development and functions. Emphasis is laid on the interrelations of structure and function. Such texts as Strasburger, Coulter and Barnes, Vines, Stevens, Zimmerman's Microtechnique, and others are useful in this course. Two laboratory periods and two recitations, first semester. 1915-1916.

4. *Ecological Botany.* The work in this course depends upon the satisfactory completion of Course 3. It includes the study of the biological relations of plants, their adaptations and the chief factors determining plant distribution and associations. Warming's

Plant Ecology, Clement's Research Methods, and Cowles and such reading as is available form the basis of the course. Two recitations and three hours' laboratory or field work, second semester. 1915-1916.

5. *Field Zoology.* An introduction to the life relations of the more common forms, their habits, the identification and classification of important groups. Typical habitats and the forms inhabiting them are studied. The economic importance of certain groups such as insects and birds is of vital interest, and these claim particular attention. The class is limited in number and none should enter without permission from the instructor. Three hours, second semester.

6. *Comparative Anatomy of the Vertebrates.* Lectures and recitations on the comparative anatomy and general physiology of vertebrates. The laboratory work is on vertebrate types, which are studied with special reference to human anatomy and physiology. The course is of value to those preparing to teach and of special interest to those preparing for the study of medicine, as well as of general interest to others. Such books as Wiedersheim's Comparative Anatomy, Parker and Haswell's text book of Zoology, vol. II, Jennings and Reighard's The Cat, are useful references. Two laboratory periods and two recitations, first semester. 1914-1915.

7. *Physiology and Histology.* This is supplementary to the work in the study of anatomy of the vertebrates, and is designed to include the general physiological processes, with emphasis on those of the most practical nature. A suitable text with reference work and laboratory practice make up the course. The references include standard and recent texts on physiology, and in the laboratory standard methods of general histology are used. Four hours, second semester.

8. *Bacteriology.* This is an introductory course

dealing with the biology of bacteria and other microorganisms. The importance of a knowledge of these forms is in many branches of science and daily life. The common methods used in the study of bacteria are employed in the laboratory in the study of the bacteria of the household, foods, air and water. Emphasis is placed on the general physiological relations of bacteria, their distribution and relation to diseases. Buchanan's Household Bacteriology, or Frost and MacCampbell's General Bacteriology is the text, with a laboratory guide. Four hours, second semester. 1914-1915.

9. *Embryology.* A study of the segmentation and development of the germ layers and early development of the principal structures of the vertebrate body. This is fundamental to a clear conception of many problems in biology. Two recitation and two laboratory periods, second semester. 1915-1916.

10. *Heredity and Eugenics.* Since the discovery of the Mendelian law great advances have been made in a knowledge of heredity. Both science and education have gained by this, in the application of a knowledge of these laws to biological, sociological and educational problems. This course takes up the study of the method and laws of heredity, unit characters, pure lines, elimination of undesirable traits, and the development of new and desirable traits, and the application of the principles of heredity to economic and sociological problems. Three hours, second semester. 1915-1916.

Courses 1 and 2 are fundamental and they (or their equivalent) should be taken as a year's work in general biology.

While freedom of electives beyond this is permitted, students should consult the instructor before enrolling.

CHEMISTRY

Professor West

1. *General Inorganic Chemistry.* A beginning course in chemistry open to all students of the College. Two recitations and four hours' laboratory work, first semester.

2. *Advanced Inorganic Chemistry.* A discussion of some of the more advanced problems and theories together with suitable laboratory experiments. Open to all students who have had Course 1 or its equivalent. Two recitations and four hours' laboratory work, second semester.

3. *Qualitative Analysis.* This course deals with the separation and identification of the constituents of chemical compounds and mixtures by both the wet and the dry methods. Reference texts, Morgan's Qualitative Analysis and West's Laboratory Outlines. Open to all students who have had Course 1 or its equivalent. Two recitations and four hours' laboratory work, first semester.

4. *Quantitative Analysis.* Quantitative determinations are made to find the per cent of elements and compounds present in commercial products, ores, minerals, etc., by both gravimetric and volumetric methods. The making of solutions of known value and the calibrating of apparatus. Open to all students who have had Courses 1 to 3 inclusive. One recitation and six hours' laboratory work, second semester.

5. *Organic Chemistry, Aliphatic Compounds.* A study of the text, lectures and laboratory work in making synthetic preparations such as ethers, chloroform, ethyl bromide, acetal chloride, methyl amine, etc. Text: Perkin and Kipping's Organic Chemistry and Cohen's Practical Organic Chemistry, with laboratory outlines. Open to students who have had Courses

1 to 3, inclusive. Two recitations and four hours' laboratory work, first semester.

6. *Organic Chemistry, Aromatic Compounds.* A continuation of Course 5. Laboratory work in preparing such aromatic compounds as nitrobenzene, phenyl bromide, sulphanilic acid, aniline, malachite green and experiments with certain carbohydrates. Text, same as in previous course. Open to students who have had Courses 1 to 3, inclusive. Two recitations and four hours' laboratory work, second semester.

7. *Plants and Soils.* A course consisting of laboratory work, with a large amount of library reference work and the preparing of a thesis upon some practical subject that has a bearing upon plant life or soil fertility. Open only to those who have had Courses 1 to 6 inclusive. One recitation and six hours' laboratory work, first semester.

8. *Foods and Nutrition.* A course similar to Course 7 but along the lines of foods and nutrition. A study of the elements found in foods and their relations to the health and proper nutrition of the body. Open only to those who have had Courses 1 to 6 inclusive. One recitation and six hours' laboratory work, second semester.

9. *Chemistry of the Household.* A course of lectures with some laboratory work for the women of the College who are taking other groups than VII or VIII. Students taking Groups VII or VIII may elect this course provided they have had Course 1, and receive three-fourths' credit. The course is a required subject for Freshmen in the Kindergarten Training Course. It is open to all women of the College and requires no previous knowledge of chemistry. Two lectures and four hours' laboratory work, second semester.

Courses 1, 2 and 5, 6 are year courses and no credit is given unless the full year's work is completed.

ECONOMICS AND SOCIAL SCIENCE

PROFESSOR MITCHELL

1. *Principles of Economics.* This course is designed to cover the more important portions of the general field of economics. The student is expected to assimilate the general principles of the subject and to be able to apply them to the discussion of practical questions. An excellent library of economics, containing the important treatises in English on the subject, is at hand, and students are required to use it freely. Three hours, throughout the year.

2. *Money and Banking.* A discussion of the theory and history of money and banking with special reference to the United States. The gold standard; bimetallism; fiat money; our present currency, with proposed changes; functions of a bank; first United States Bank; second United States Bank; our present national banking system, including our new banking and currency act; a comparison of foreign banking systems with our own, especially those of England, France, Germany, Scotland and Canada. Three hours, second semester. 1915-1916. Prerequisite, Course 1.

3. *Principles of Taxation.* The historical development of taxation; a study of the different kinds of taxes, as the general property tax, the single tax, inheritance tax, income tax; taxation of corporations; double taxation, together with recent reforms in taxation. Three hours, first semester. 1914-1915. Prerequisite, Course 1.

4. *Corporations.* A study of modern industrial combinations, their history in the United States from the pool to the trust and holding company. Attempts at control through the application of the Sherman antitrust act and their results, together with proposed new legislation, will form a part of the course. Three

hours, second semester. 1914-1915. Prerequisite, Course 1.

5. *Principles of Sociology.* An advanced general course. It includes an analysis and classification of social facts; discussion of the principles of social theory and the process of socialization; study of social feeling, public opinion and organized action; an inquiry into the causes of emotional epidemics, panics, mob violence, revolutions; an explanation of the growth of public opinion on great questions; an attempt to show from history and current events that public action is governed by definite laws of social change. Three hours, second semester. 1915-1916.

ENGLISH

English Language and Literature

DR. BLAISDELL AND MR. WARNER

1. (a) *Theme Writing.* Careful consideration of the form and theory of the business letter; character development; forms of expression; environment; subordination; contrast; written conversation; visualization; power of words; book reviews. (b) Continuation of theme work; the short story; the essay; the oration; the reading of standard literature as out-of-class work. Required of Freshmen. Three hours throughout the year.

The following courses are elective:

2. *English Literature before Shakespeare.* Special attention to Beowulf and the works of Chaucer and Spenser. Two hours, first semester. 1915-1916.

3. *Shakespeare.* The reading of perhaps twenty plays. Three hours, second semester. 1915-1916.

4. *Elizabethan Literature.* A study of the lead-

ing writers, other than Spenser and Shakespeare, of the Elizabethan Age. Two hours, second semester. 1914-1915.

5. *Milton.* Two hours, first semester. 1914-1915.

6. *Famous Biography.* A study of several of the greatest biographers in the language and of a large number of volumes of current biography and of brief magazine biographies. The course aims to interest young people in the reading of biography. Two hours, first semester. 1915-1916.

7. *Eighteenth Century Literature.* This course includes the beginnings of the English novel. Two hours, second semester. 1914-1915.

8. *Nineteenth Century Poetry.* A study of the chief poets, except Tennyson and Browning. Three hours, first semester. 1914-1915.

9. *Nineteenth Century Prose.* A study of several of the prose writers who made this century famous. The development of the novel during this century will be considered in this course. Two hours, second semester. 1915-1916.

10. *Tennyson.* Three hours, second semester. 1914-1915.

11. *Browning.* Three hours, first semester. 1915-1916.

12. *American Classics.* A study of the style and the literary value of a number of famous American poems, essays, novels, etc. Two hours, second semester. 1915-1916.

13. *Contemporary Drama.* A study of twenty or thirty dramas written during recent years. Those from foreign languages will be read in translation. Two hours, first semester. 1914-1915.

ENGLISH SPEECH

Mr. Warner and Miss Bjoin

1. *Principles of Expression.* A study of the fundamental principles of public speaking. Training of voice, mind and body. This course must precede all others in the department. Three hours, first semester.

2. *Interpretation.* A continuation of Course 1. Analysis and interpretation of chosen selections; character study and impersonations. Three hours, second semester.

3. *Platform Reading.* The preparation and public recital of a program by each member of the class. Selections and cuttings from standard literature. The program may consist of dialect or miscellaneous readings, the monologing of a drama or the dramatizing of a novel. Two hours, first semester.

4. *Dramatic Interpretation.* A laboratory course in the study and staging of classical and modern drama. Two hours, second semester.

5. *Debating.* A study of the principles of argumentation, supplemented by debates by the members of the class. Three hours, first semester.

6. *Debating.* A thorough study and investigation of several questions. Reports and preparation of briefs. Two hours, second semester.

FRENCH

Miss Cornwell

1. *Elementary French.* Grammar and easy reading, with practice in speaking and writing. Four hours, first semester.

2. *Elementary French.* Continuation of Course 1. For those who have had Course 1, or one year in the high school. Four hours, second semester.

3. *Intermediate French.* Easy prose and plays, with practice in speaking and writing. Grammar review. Four hours, first semester.

4. *Intermediate French.* Continuation of Course 3. Four hours, second semester.

5. *French Composition.* Open to students who have completed Courses 1, 2, 3, 4. Two hours throughout the year.

6. *General Course in French Literature.* History of literature will be used as text and selections from authors will be read in class. Two hours throughout the year.

7. *French Drama of the Seventeenth Century.* Corneille, Racine, Moliere. Three hours throughout the year.

8. *French Prose of the Nineteenth Century.* The works of such authors as Daudet, Zola, Bourget will be studied. 1915-1916. Three hours throughout the year.

9. *Literature of the Nineteenth Century.* Special study of Romanticism and Naturalism. Three hours throughout the year. 1914-1915.

GERMAN

Miss Haefliger

1. *Elementary German.* Pronunciation, grammar, selections in prose and verse, practice in speaking and writing German. Four hours, first semester.

2. *Elementary German.* Continuation of Course 1. Four hours, second semester.

3. *Intermediate German.* Selections in easy prose with composition and conversation based on topics drawn from the text. Reviews in grammar. Four hours, first semester.

4. *Intermediate German.* Continuation of Course 3. Four hours, second semester.

5 *German Composition.* Open to students who have completed Courses 1, 2, 3, and 4. Two hours throughout the year. 1915-1916.

6. Two courses are given in alternate years:

a. *Modern Prose Writers:* Storm, Freytag, Ernst, Hoffman, etc. Three hours throughout the year. 1915-1916.

b. *Lessing's Minna von Barnhelm,* Schiller's Wilhelm Tell and Maria Stuart, Goethe's Goetz von Berlichingen. Three hours throughout the year. 1914-1915.

If one of these courses is taken after having taken the other, only two credits are given for it.

Advanced Courses. The consent of the instructor is necessary for the election of subjects in this group.

7a. *Lessing's Life and Works:* Miss Sara Sampson, Emilia Galotti, Nathan der Weise, Hamburgische Dramaturgie, Laokoon. Special attention will be given to the Age of Frederick the Great. Three hours throughout the year. 1914-1915.

7b. *Schiller's Life and Works:* Fiesco, Die Jungfrau von Orleans, Essays, Die Braut von Messina, Wallenstein. Special attention will be given to the Thirty Years' War. Three hours throughout the year. 1915-1916.

7c. *Goethe's Life and Works:* Dichtung und Wahrheit, Werther, Egmont, Iphigenie, Tasso, Hermann und Dorothea. Special attention will be given to the Period of Revolution. Three hours throughout the year.

8. *Faust.* Two hours throughout the year. 1914-1915.

9. *History of German Literature.* Two hours throughout the year. 1915-1916.

10. *Teacher's Course.* A systematic study of grammar and the reading materials now used in the high schools; lectures and discussions on the methods of teaching German. Students will be required to conduct classes in elementary German during the second semester. Two hours throughout the year. 1914-1915.

11. Two courses are offered in alternate years. They present an outline of German life in the nineteenth century as reflected in the drama, the novel and the short story.

a. *Modern German Drama.* Selected dramas of H. von Kleist, Grillparzer, Hebbel, Anzengruber, Sudermann, Hauptmann, and others. Two hours throughout the year. 1914-1915.

b. *German Novel and Short Story.* Selected works of Hoffman, Ludwig, Grillparzer, Spielhagen, Storm, Fontane, Wildenbruch, Frenssen, and others. Two hours throughout the year. 1915-1916.

Students presenting one unit of German should elect Course 2.

Students presenting two units of German should elect Course 3.

Students presenting three units of German should elect Course 4.

Students preparing to teach German are strongly advised to take Courses 5, 9 and 10.

A major in German must include one course under 6, one course under 7 and Course 9.

GREEK

DR. EWING.

1. *Elementary Greek.* White's First Greek Book. Five hours, first semester.

2. *Xenophon's Anabasis.* Prose composition. Five hours, second semester.

3. *Colson's Reader.* Selections from Herodotus; Greek literature; prose composition. Four hours, first semester. Prerequisite, Course 2.

4. *Homer.* Book I of the Iliad translated and the forms and metrical peculiarities carefully studied; rapid reading of the most interesting portions of the text with frequent practice in sight translation; topical study of the Homeric Age; Greek literature. Four hours, second semester. Prerequisite, Course 3.

Elective Courses

5. *Lyric Poetry.* A study of the various forms of the lyric as a connecting link between the epic and the drama. Four hours, first semester. Prerequisite, Courses 3 and 4.

6. *Dramatic Poetry.* The reading of selected plays; lectures on the origin and development of the drama; Greek literature. Four hours, second semester. Prerequisite, Course 5.

7. *Herodotus, Thucydides, Xenophon.* Notes on Greek constitutional development, illustrated by copious readings. Four hours, first semester. Prerequisite, Courses 3 and 4. 1914-1915.

8. *Lysias, Demosthenes.* A study of the history and influence of Greek oratory. Four hours, second semester. Prerequisite Courses 3 and 4. 1914-1915.

Courses 7 and 8 alternate with Courses 5 and 6.

9. *Plato; Xenophon.* Selections from Plato's Apology, Crito, and Phaedo, and the Memorabilia of Xenophon; outlines of Greek philosophy. Three hours, first semester.

10. *Theocritus; Lucian.* Studies in the later literature. Three hours, second semester.

11. *Greek Life and Art.* A study of the civilization of the Greeks and its influence upon later peoples and times, by means of lectures and supplementary readings, and illustrated by the use of the lantern. A knowledge of Greek is not necessary for this course. Three hours, second semester. 1914-1915.

12. *Greek Literature in English.* A reading of Greek masterpieces in translation supplemented by lectures on the development of literary form among the Greeks. This course alternates with Course 11. Three hours, second semester.

13. *The Greek in English.* A brief course in the elements of the language primarily for the benefit of scientific students in acquiring a better knowledge of the terminology of science. Three hours, first semester. 1914-1915.

14. *New Testament Greek.* A careful study of Hellenistic Greek based upon the Gospel of Luke. This course alternates with Course 13. Three hours, first semester.

The major in Greek must include, in addition to courses 3 and 4, twelve hours to be selected from Courses 5-10 and 14.

HISTORY AND POLITICAL SCIENCE

PROFESSOR MITCHELL

1. *European History.* From the Fall of the Roman Empire in the West to the Peace of Westphalia, 1648. Four hours, first semester.

2. *European History.* From the Peace of Westphalia to the present time. Four hours, second semester.

3. *The History of Europe Since 1870.* Open to those who have taken Courses 1 and 2. Three hours, throughout the year. 1914-1915.

4. *History of England.* Political and Constitutional. Three hours throughout the year. 1915-1916.

5. *History of the United States.* Colonial and Revolutionary Periods, 1492-1789. Three hours, first semester. 1915-1916. Prerequisite, Courses 1 and 2.

6. *History of the United States.* National Development and the Slavery Question, 1789-1861. Three hours, second semester. 1915-1916.

7. *History of the United States.* The Civil War and Reconstruction, 1861-1876. Three hours, first semester. 1914-1915. Prerequisite, Courses 5 and 6.

8. *Greek History.* From the earliest times to the death of Alexander. Three hours, first semester. 1915-1916.

9. *Roman History.* From the earliest times to the barbarian invasions. Three hours, second semester. 1915-1916.

10. *The State.* A discussion of the origin, forms and ends of the State, together with a history of the formation of the Constitutions of England, France, Germany and the United States. Three hours, first semester. 1915-1916. Prerequisite, Courses 1 and 2.

11. *Political Philosophy.* A history of political theories from Plato to Luther. Open to those who have taken Courses 1 and 2 in History. Three hours, first semester. 1914-1915.

12. *Political Philosophy.* A history of political theories from Luther to Montesquieu. Open to those

who have taken Course 11. Three hours, second semester. 1914-1915.

13. *American Government.* An analysis of the nature, structure and working of the Federal Government and a comparison with the English system. Three hours, second semester. 1915-1916.

14. *English Government.* A study of the English government as it exists today. Three hours throughout the year. 1915-1916.

KINDERGARTEN TRAINING

Miss Robinson and Miss Ward

1. *Kindergarten Theory,* 1. This course covers a study of the theory of (a) Plays and games, (b) Child study, (c) Story work, (d) Hygiene. Three hours throughout the Freshman year.

2. *Kindergarten Theory,* 2. A study of principles as related to the building and carrying out of the kindergarten program is taken up in this course. Also a study of stories and the sources of children's literature. In the latter work, students have practical experience in story telling to children and adults. Prerequisite, Kindergarten Theory 1. Two hours throughout the Freshman year.

3. *Gift Work,* 1. The Froebellian gifts are studied with special emphasis on the practical work with the children. Students prepare and present gift plays to the class, which involves criticism and discussion. The first four gifts are covered in the course and it is done in the first year. Two hours throughout the Freshman year.

4. *Gift Work,* 2. This course is a continuation of Gift Work 1, completing the study of the gifts, and

emphasizing the theoretical as well as the practical side of the work. Two hours, first semester, Sophomore year.

5. *Occupation Work,* 1. This work covers the traditional Froebellian occupations of sewing, weaving, cutting and folding, clay and color work. Two hours throughout the Freshman year.

6. *Occupation Work,* 2. This work covers those phases of handwork known as construction work, raffia and reeds, also the application and use of various other outside materials. Prerequisite, Occupation Work 1. Two hours, second semester, Sophomore year.

7. *Ethics,* 1. Everyday Ethics by Cabot is used as a basis for the discussion of questions of ethics as related to everyday living. One hour throughout the Freshman year.

8. *Ethics, 2, or Mother Play.* This course consists of a study of the most typical of the Froebellian mother plays and the ethical as well as educational principles involved. One hour throughout the Sophomore year.

9. *History of Education.* A Brief Course in the History of Education, by Monroe, is used as the text. Two hours through the Freshman year.

10. *Child Study.* This course presupposes a year and a half in the department and Psychology 1. Fundamentals of Child Study by Kirkpatrick is used as the text. Two hours, second semester, Sophomore year.

11. *Songs and Games.* A course in the development of games and in actual participation in them. Kindergarten songs are studied from the point of view of content, musical construction, and suitability for children. One hour throughout the Freshman and Sophomore years.

12. *Teaching.* The work in Teaching consists of practical experience in the College Kindergarten, supplemented by work in the kindergarten and the first three primary grades of the local public schools. Teachers' meetings, with discussions of the problems involved, are part of this work. Six hours throughout the year.

On the completion of the above courses and the required college work, consisting of two semesters of English, two of Biology, one of Household Chemistry, two of Bible, and two of college electives (6 hours), the student is granted a state life Kindergarten certificate.

Students desiring further study may continue, with the emphasis laid upon the department work, for one more year, at the end of which a certificate will be given.

The following courses are for third-year students:

13. *Froebel's Education of Man.* One hour throughout the year.

14. *Froebel's Mother Play* and *Henderson's Children of Good Fortune.* One hour throughout the year.

15. *Pedagogy.* Advanced story work with the emphasis on analysis and story-telling. Dewey's Pedagogical Creed and Interest as Related to Will are the lines of this work. One hour throughout the year.

16. *School Management.* Two hours, one semester.

17. *Hand Work.* Advanced construction work. Two hours, second semester.

18. *Theory and Practice.* This work involves more advanced program work and the management of the entire kindergarten. Seven hours throughout the year.

Upon the completion of a fourth year, made up of work in majors and advanced college electives, the degree of A. B. will be conferred.

LATIN

DR. EWING, PROFESSOR COOK, MISS SWIGART

A. *Elementary Course.* 1. Lessons. 2. Caesar. Course A covers the work of the two units of foreign language required for entrance to college or to the law or medical school. Five hours throughout the year.

B. *Intermediate Course.* 1. Cicero. 2. Vergil. Course B is offered to those who have had two or three years of Latin and wish to prepare themselves to enter Course 3 in one year. Five hours throughout the year.

3. *Cicero De Senectute.* Inflections and word analysis; reading of selections from Ennius, Lucretius, Vergil, Sallust; Roman Literature of the Republic. Four hours, first semester.

4. *Livy, Book XXI.* Review of syntax; a play of Terence for reading at sight; topography of Rome. Four hours, second semester.

5. *Horace.* Odes and selections from the Epodes; study of the style and qualities of Horace; social and political conditions of the Augustan Age; Literature of the Augustan Age. Three hours, first semester.

6. *Pliny's Letters.* Selections from Martial, Tacitus, Suetonius; Silver Age Literature. Three hours, second semester.

Elective Courses

7. *Roman Drama.* Plautus, Terence, Seneca. Three hours, first semester.

8. *Roman Philosophy.* Lucretius, Cicero, Seneca. Three hours, second semester.

9. *Roman Satire.* Horace, Persius, Juvenal. Three hours, first semester.

10. *Roman Elegy.* Catullus, Tibullus, Propertius. Three hours, second semester.

11. *Roman Literature in English.* An outline course of readings in the best translations, offered primarily to non-classical students. Three hours, first semester.

12. *Roman Life and Art.* Private life of the Romans; lectures and readings, illustrated by the lantern. This course does not require a knowledge of Latin. Three hours, first semester. Alternates with 11.

13. *Teacher's Course.* A careful study of portions of Caesar; review of elementary Latin grammar, pronunciation, etc.; methods of the work of the first and second years of Latin study. Two hours, second semester.

14. *Teacher's Course.* A careful review of one oration of Cicero and one book of the Aeneid, with special attention to forms and syntax, and versification; methods of teaching third and fourth year Latin. This course alternates with Course 13. Two hours, second semester.

The major in Latin must include, in addition to Courses 3 to 6, nine hours to be selected from Courses 7 to 10, 13, and 14.

LIBRARY METHODS

Miss Cook

A course in classification, cataloguing, reference work and bibliography. Elective for Juniors and Seniors. One hour, first semester.

MATHEMATICS

DR. NOTESTEIN

A Preliminary Course. This course is given for the benefit of all students who do not take college algebra who desire to take work in science. The course will include such subjects as percentage, involution, evolution, quadratic equations, and logarithms. Two hours, first semester.

1. *College Algebra.* This course includes logarithms, progressions, binomial theorem, undetermined coefficients, series and the solution of higher equations. Four hours, first semester.

2. *Plane and Spherical Trigonometry.* In this course special attention is given to the functions of angles, the transformation of trigonometric expressions, Napier's rules of circular parts, the solution of problems and the application of spherical trigonometry to astronomy. Four hours, second semetser.

3. *Analytical Goemetry.*

(a) This course deals with the straight line, and the conic sections. Three hours, first semester.

(b) Deals with higher plane curves, the general equation of the second degree and geometry of three dimensions. Three hours, second semester.

The object of these courses is to familiarize the student with the methods of analytical reasoning.

4. *Surveying.* This is an elementary course open to students who have taken Courses 1 and 2. Two hours, with field work during the spring term, second semester.

5. (a) *Differential Calculus.* This course includes a study of the rules and formulae for differentiation, expansion of functions, indeterminate forms, application of calculus to curves, maxima and minima. Five hours, first semester.

(b) *Integral Calculus.* This course includes a study of the methods of integration, the application of integral calculus to curves, areas, volume, moment of inertia, pressure, etc. Five hours, second semester.

6. *An Advanced Course.* Selected to suit the needs of the class; open to students who have taken Courses 5a and 5b. Five hours. 1914-1915.

7. *Analytical Mechanics.*

(a) This course treats of the fundamental principles of mechanics, the composition and resolution of forces, center of mass, friction, virtual velocity, machines, attraction, rectilinear and curvilinear motion. Five hours, first semester. 1913-1914.

(b) This course treats of the laws of motion, central forces, vis viva, impact, work and energy, moment of inertia, rotary motion, motion of a system of rigid bodies in space. Five hours, second semester. 1913-1914.

PHILOSOPHY AND EDUCATION

Dr. Randels

Philosophy

1 and 2. *History of Philosophy.* The study of what the great thinkers of the world have thought and written about the problems of life. Open to Juniors. Three hours through the year.

3. *Logic.* A study of the principles of inductive and deductive reasoning. Open to Juniors and Seniors. Three hours, first semester. 1915-1916.

4. *Aesthetics.* A consideration of the principles which underlie the aesthetic appreciation of architecture and painting. Open to Juniors and Seniors. Three hours, second semester. 1915-1916.

5. *Readings in Modern Philosophy.* This course will serve as an introduction to philosophy, since some of the fundamental problems of philosophy will be especially noted. There will be a first hand study of the writings of Descartes, Locke, Berkley, and Hume. Open to Juniors or Seniors. Three hours, first semester. 1914-1915.

6. *Readings in Philosophy.* A first hand study of the writings of other philosophers than those studied in connection with Course 5. Open to Juniors and Seniors. Three hours, second semester. 1914-1915.

PSYCHOLOGY

7. *General Psychology.* The purpose of this course is to interest the student in the study of himself. The text-book work is supplemented by simple experiments designed to give the student first-hand information and to promote independent work. Open to Sophomores. Three hours, first semester.

8. *General and Educational Psychology.* Continuation of Course 1 with especial attention to those parts of Psychology which have the widest application to education. Three hours, second semester.

EDUCATION

9 and 10. *History of Education.* An outline of the development of educational theory and practice in the light of economic, social, political, philosophical, and religious conditions at different ages. Open to Juniors. Two hours through the year.

11. *General Principles of Method.* Selection and arrangement of subject matter, the doctrine of interest, the formal steps, and the preparation of lesson plans, class room management. Open to Juniors. Two hours, second semester.

12. *Principles of Education.* Principles contributed by biology, psychology, sociology, and philosophy

which appear to be the foundations of modern education. Open to Seniors. Two hours, first semester.

13. *Psychology and Pedagogy of Exceptional Children.* It includes methods of diagnosis, the Binet tests of intelligence, physical tests and measurements, heredity, natal influences, accidents, diseases, etc. Two hours, first semester.

Graduates from any of the College groups of study who complete not less than eleven hours of the above courses in psychology and education in addition to Course 7 will be recommended by the faculty of the State Board of Education for a teacher's certificate which will enable them to teach in the public schools of Michigan without examination.

PHYSICAL TRAINING FOR WOMEN

Miss Bjoin

The demand for physical education is rapidly growing. It has become a self-evident fact that properly directed exercise will bring us to a normal state, giving health, development, control, freedom, grace, and poise.

The graded course of regular class work, which is offered to and required of every woman student, covers two years of training, for which two hours' credit is given for satisfactory work done. The classes meet three times a week, and the course consists of drills in Swedish and German gymnastics, floor work (dumb-bells or wands), apparatus work (horse, ladder, parallel bars, etc.), the Emerson system of psycho-physical exercises, games, rhythm, and national dances.

The purpose of the course is to improve the organs of the circulatory, respiratory, and digestive systems; to give perfect control to voluntary motion by training the body to obey the commands of the will with the least waste of energy. Relaxing and breathing exercises bring rest to the over-tired nerves. In order to secure the proper position, to correct the bad posture, round shoulders, flat chest, etc., it is necessary to give special prescriptions of corrective exercises. An examination is made when the pupil arrives, and exercises are prescribed by the instructor to correct any irregularity or weakness in development noted at the time.

A special class in rhythmic movement, which consists of harmoniously combined movements of all the members of the body executed to music, is provided for and required of students of the music and kindergarten departments.

These co-ordinated exercises give a rare buoyancy and lightness of the figure, with bodily control which results in unity of action, in poise, freedom and grace, and at the same time furnishes exercise sufficiently vigorous to stimulate the vital organs to increased activity.

Aside from the required work, various sports and games are encouraged in season. During the winter a regular schedule of class basket-ball games is played to decide the class championship of the college. In the spring and fall months special attention is given to tennis and outdoor sports. The regular tournament deciding the college tennis championship is held in May.

All students taking the work are expected to wear the regulation suit, which consists of a blouse and bloomers made of black material, preferably brilliantine.

PHYSICAL TRAINING FOR MEN

Mr. Bleamaster

Special attention is given to the health and physical welfare of the men of the College. In order to help towards this end, physical training work has been put on a credit basis, two hours' work being required of each student before graduation.

During the spring and fall months, outdoor work is emphasized through competition for positions on the various teams, namely, football, baseball, track, tennis, and cross-country running. These teams are open to all, and every one is urged to enter one of them.

During the winter months, from November 1st to April 1st, regular gymnasium practice is required of all Freshmen and Sophomores.

This work consists of two hours of class work each week, regular class periods being scheduled for this purpose. The work is divided into two grades, that for Freshmen consisting of marching, calisthenics (both free hand, dumb-bells, Indian club and wand drills) and also of the simpler apparatus work on the horse, the bars and the ladders. The second year men, and those judged by the instructor to be more proficient in that line of work, are given more advanced training in calisthenics and heavy apparatus and are also given practice in leading the other classes.

The work is planned so that every man in the Freshman or Sophomore class, not excused by the Faculty upon the recommendation of the athletic director, must be engaged during a part of his college year in some form of athletics.

The ultimate aim of athletic instruction in Alma is not the creation of a few stars, but the development of the individual to a greater physical proficiency.

In the fall, students who are not on the football squad must engage in cross-country runs at least three times a week. In the spring, they must take up either baseball, track, or tennis.

An incidental fee is required of each student, which gives him use of a private locker and all the privileges of the field and gymnasium, and also admits him free to all athletic contests.

Students who are below grade in more than three hours' work cannot compete in any intercollegiate contest, and students who are below grade in more than two courses must drop out of all athletic teams until their work has been made up.

At the beginning of each semester the student will be subjected to careful physical examination and measurements. Exercises in the gymnasium will then be prescribed which are appropriate for his needs.

An elective for juniors and seniors covers the theory and practice of physical training and coaching. It prepares men for high school positions.

PHYSICS

Professor Zimmerman

A. *Elements of Physics.* This course is intended for those who wish to pursue the study of Physics and have not presented the entrance credit. Three hours throughout the year, including one laboratory period.

1. *Mechanics, Sound, Light, Heat and Electricity.*

Lectures, recitations and laboratory work, similar to Course 2 in that it considers practically the same subject matter, but from a less mathematical standpoint. It is designed for those students who wish to study physics for its cultural value. Those expecting to take the more advanced courses of the department, or to prepare for medical, dental, or pre-engineering courses, should take Courses 2 and 3.

One lecture, 2 recitations and 2 laboratory periods throughout the year. Four hours' credit.

2. *General Mathematical Physics.*

(a) The first semester is devoted to Mechanics, Sound and Heat, with the first half semester given to mechanics. The course includes the study of the physical units, dimensional formulae, motion, work and energy, inertia, simple and harmonic motion, properties of solids and fluids, resonance, physical basis of music, laws of strings, nature of heat effects, specific heat, transmission and transformation of heat energy.

(b) In the second semester are studied magnetism, electricity and light, including the consideration of terrestrial magnetism, properties of magnets and their fields, potential, conduction, induction, the industrial applications, the nature and propagation of light, reflection, refraction, polarization, interference, and the phenomena of wave length and color. See 3. Lectures and recitations illustrated by experiment and the lantern, 4 hours throughout the year.

Prerequisite, entrance physics. Registration in Mathematics 3 is advised.

3. (a and b). *General Physics — Laboratory Course.* Designed to accompany Course 2, consisting of quantitative measurements, the use of instruments of precision, the verification of the laws of Physics, the determination of constants and coefficients, and the manipulation of apparatus.

Two laboratory periods each week, one year, two hours. Designed to accompany Course 2, but may be taken in the year following.

4. *Advanced Mathematical Physics.* This course involves the discussion of questions and problems of mathematics as applied to physical science. Graphic methods, the slide rule and logarithms supplement the mathematical calculations.

Prerequisite, Physics 2 and 3, and registration in calculus. One year, two hours, or one semester, four hours.

5. *Electricity and Magnetism.* This is an advanced course designed for the study of the fundamental facts of the subject, magnetic fields, electrolysis, thermo-electricity, potential, current, resistance, inductance, capacity, practical applications in electric machinery, and the electro-magnetic theory of light. Prerequisite, Physics 2 and 3, or equivalent. First semester, three hours.

6. *Advanced Course in Light.* Geometrical and physical optics will be treated in detail. Under the former head some of the most important optical instruments will be studied; under the latter, the wave theory of light will be developed.

The course aims to be a practical and useful study of optics as well as to give a careful scientific explanation of many optical phenomena of common experience. Spectroscopy, diffraction, dispersion, interference, and polarization will be discussed thoroughly in lecture and recitation, with demonstration. Of same grade as 4, 5, 7, and 8; same prerequisite as 5. Three hours, second semester.

7. *Advanced Heat and Molecular Physics.* The aim of this course is to give a comprehensive view of the science of heat in its theoretical and experimental phases. It has been found to be of special value as an introduction to graduate courses in physical chemistry and mechanical engineering. The study includes the consideration of mercurial and air thermometry, calorimetry, heat equivalents, coefficients of expansion, conductivity, vapor pressures and densities, hygrometry, and pyrometry. For those who have elected Courses 2 and 3 or equivalent. Three hours, second semester.

8. *Mechanics, Wave Motion and Acoustics.* The course is designed for the consideration of the physical

meaning and mathematical derivation of the fundamental forms and equations of mechanics and wave motion. Two hours, first semester.

9. *Pedagogy of Physics.* As a teachers' course it involves the study of the choice of subject matter and methods of presentation best suited to a secondary course. Two hours, first semester. Prerequisite, College Physics, Heat and Light.

10. *History of Physics.* This includes the discussion of the evolution of modern physical science in its relation to the growth of civilization. Two hours, second semester. Prerequisite same as for 9.

11. *Household Physics.* This course aims to present the principles of Physics by their application to household affairs and other everyday experiences. It is adapted to the requirements of the women of the College who are beginners in Physics, but also valuable to those who present entrance credit in the subject, in that it gives a concise review of the principles with many applications and illustrations. First semester. Two lectures and two hours laboratory work.

12. *Physics Conference.* At the weekly meetings the students present before the class, for informal consideration, subjects not treated in the class room and reviews of articles appearing in the scientific journals or magazines. This course also aims to teach the student the efficient use of a reference library and of various indexes and catalogs. Each student is requested to prepare a bibliography upon some physical subject. The work has an excellent effect in training students to present their ideas in a systematic manner before an audience. Open to students taking physics as major or elective work. One hour each week.

RELIGIOUS EDUCATION

English Bible

1. *Old Testament History.* A survey of the chief personalities and events from the time of Moses to the end of the Maccabean struggle, with special attention to the way the prophets met the political, social and religious problems of their day. Two hours, second semester. Required of Freshmen.

2. *The Life of Christ,* in which the student will be expected to master the journeys and events of Christ's life in their order. Two hours, first semester. Required of Sophomores.

3. *The Founding and Extension of the Christian Church.* Two hours, first semester. Required of Juniors.

4. *The Bible as Literature.* The literary qualities of the books of the Bible will be studied. The course will also emphasize how indispensable a knowledge of the Bible is to an intelligent appreciation of modern literature. Open to Juniors. Two hours, second semester.

5. *Development of Religious Ideas.* Origin, chief characteristics, historical development and significance for civilization of the world's great religions, especially Judaism and Christianity. Three hours, first semester.

6. *Ethics.* Three hours, second semester.

7. *Theism.* Three hours, first semester.

8. *Modern Missions.* Three hours, second semester.

COURSES IN RELIGIOUS LEADERSHIP

9. *History and Agencies of Religious Education.* The history, aims and organization of modern agencies of religious education, especially the Sunday School. Three hours, first semester.

10. *Principles and Methods of Religious Education.* Three hours, second semester.

ENGINEERING DRAWING

PROFESSOR ZIMMERMAN

I. *Mechanical Drawing and Descriptive Drawing.* A study of orthographic projection as applied to problems relating to the point line and the plane, tangents, and normals, curved lines, curved surfaces, warped surfaces, surfaces of revolution, intersection, intersection and development of surfaces, perspective and isometric projection. Particular attention is given to projection in first and third quadrant. Problems are assigned for home or drawing room, thereby enabling the student to learn the general principles of engineering problems.

In the drawing room the student is taught the use and care of the instruments, drawing to scale, plain free hand lettering, and the forming of common geometrical curves. One conference hour, two recitations and lectures, and three drawing periods each week, one semester.

II. *Machine Drawing.* The student is expected to make complete shop drawings and tracings from free hand sketches with sufficient exact dimensions, which have been made from various machines.

Must be preceded by Course I. Two three-hour periods, or three of two hours' length.

The Conservatory of Music

COURSES OF STUDY

Four courses of study are offered: Pianoforte, Voice Culture, Pipe Organ, Violin. Upon the completion of any of these courses a certificate will be given.

I. PIANOFORTE

This course is divided into five grades. The time required for its completion will depend upon the talent and application of the pupil.

Harmony, Musical History and either Voice, Pipe Organ, or Violin, grades I and II, are required. The following list of compositions is suggestive only of the work required, much freedom of selection being exercised to meet the needs of the individual pupil:

Grade I

Lebert and Stark—Pianoforte School, Part I; Koehler—Practical Method; Loeschhorn, op. 65; Gurlitt, op. 140; Beihl, op. 44; Duvernoy, op. 176; Czerny, op. 39; Sonatinas by Clementi.

Grade II

Lebert and Stark—Pianoforte School, Part II, Koehler, op. 50 and 242; Loeschhorn, op. 66 and op. 52; Concone, op. 24; Bach—Easy Preludes and Fugues; Sonatas by Reinecke, Krause and Clementi; variations by Beethoven.

Grade III

Czerny—School of Velocity; Heller, op. 46 and op. 47; Bach—Two and three voiced Inventions; Kullak—Octave School, Books I and II; Loeschhorn, op. 67;

Sonatas by Haydn and Mozart; Pieces by Hummel, Mendelssohn, Heller, Grieg, Godard, etc.

Grade IV

Cramer; Czerny—50 Daily Studies; Bach—French and English Suites; Mozart and Beethoven Concertos; Czerny—Op. 740; Beethoven Sonatas; miscellaneous studies and pieces by Moscheles, Tschaikowsky, Schubert, Field, Weber, Moszkowski, Leschetizky, etc.

Grade V

Czerny, op. 740; Clementi—Gradus ad Parnassum; Bach—Well-Tempered Clavichord; Czerny — Legato and staccato, op. 335; Taussig — Finger Exercises; Compositions by Schumann, Chopin, Saint-Saens, Liszt and the modern composers.

II. VOICE

The aim of this course is the development of the singing voice until it is capable of rendering representative selections from opera, oratorio and song literature. The voice must be produced evenly and freely throughout its range. Forced, throaty, breathy, pinched and otherwise faulty tone production is strongly condemned and avoided. Careful attention is given to adequate breath control, the relaxation of the throat and the centering or "placing" the voice in the resonance cavities of the head. Perfect enunciation and intelligent musicianly interpretation of the masterpieces is earnestly striven for.

Grades I and II

Diaphragmatic breath control is firmly established. Exercises for the purpose of producing purity of tone, flexibility and a good legato are given. Masterpieces of Vocalization, Books I and II.

Grades III and IV

The purity, richness, and range of the voice are carefully developed. Ballads and songs are used extensively. Practice in ensemble, in duet, trio, quartet, choir and chorus is furnished. Masterpieces of Vocalization, Book III.

Grade V

In this grade artistic development in regard to tone in sostenuto and pianissimo is carried on, the range and volume of the voice is carefully augmented and accuracy and brilliancy in technical execution is further advanced. A repertoire of arias from operas and oratorios, as well as songs for church and concert, is prepared. Masterpieces of Vocalization, Book V.

III. PIPE ORGAN

Students entering this course must have finished the first and second grades in the regular course of pianoforte playing. History and Harmony are required.

Grade I

Study of Manual Touch, Pedal-playing and Elementary Registration; Dunham's Organ School, Books I, II, III and IV; Stainer's Organ Primer; Whiting's First Studies; Easy Pieces arranged by Shelley, Clark, Barrett, Orem, Warren, etc.

Grade II

Bach—Vol. I; Rink—Best Organ School; Lemmens—Organ School, Part II; Practical Service Playing; Easy Pieces by Merkel, Dubois, Callaerts, Tombelle, etc.

Grade III

Bach—Vol. II; Buck—Studies in Pedal Phrasing; Clark—Study of Registration; compositions by Buck, Guilmant, Dubois, Thayer, Lefebure-Wely, Lemaigre, Batiste, etc.

Bach — Vol. III; Mendelssohn — Preludes and Fugues; Sonatas by Mendelssohn, Guilmant, Lachner, Rheinberger, etc. Pieces by Capocci, Smart, Calkin, Widor, etc.

IV. VIOLIN

This course comprises the study of the Violin, Harmony, Musical History, and Pianoforte, Grades I and II.

Ensemble playing is made a special feature. Pupils have the privilege of participating in duets, trios, quartets, rehearsals of the string orchestra class and the pupils' recitals which are given at intervals during the year.

Grade I

Laoureux, Violin Method, Books I and II. De Beriot, Violin School, Easy Studies and Pieces. Blumenstengel, Scale Studies, Books I and II.

Grade II

Schradieck, Scale Studies. Studies by Alard (op. 40, Bks. I and II), Wohlfart, Sitt. Selected solos of Dancla, De Beriot and others.

Grade III

Schradieck, School of Technic, Part III. Casorti, Technics of Bowing. Mazas, Special Studies. Studies by Kreutzer and Alard, op. 16. Violin Sonatas by Haydn, Mozart, Schubert, Gade, etc.

Grade IV

Remainder of Kreutzer Studies, Nos. 30 to 40. Kneisel, Exercises to follow Kreutzer. Wilhelmy, Exercises in thirds. Fiorillo, 36 Studies "Caprices." Rode, 24 Caprices. Sonatas by Beethoven, Schumann, Grieg, Rubenstein, Sjogren and others. Concertos by Viotti, Molique, Rode and Kreutzer.

Grade V

Mazas, op. 36, Book II. Artists' Studies. Dancla, op. 73, 20 brilliant studies. Bavinie's 24 Studies. Sevcik, School of Technic, op. I, Part IV. Bach, six Sonatas. Wieniawski, op. 18. Etude—Caprices. Dont, op. 35. Paganini, 24 Caprices. Concertos by Spohr, Mendelssohn, Beethoven, Bruch, Vieuxtemps, Wieniawski. Concert solos, such as Bruch's Scotch Fantasia, Schnett's 1st Suite. Sonatas by Cesar Franck, Brahms. Violin duets of Viotti, De Beriot and Spohr. Violin quartet in E. minor by Dont, etc.

Post Graduate Course

For graduates of Courses I, II, and III a specially prescribed post graduate course is offered.

LITERARY AND THEORETICAL REQUIREMENTS

In addition to private work deemed sufficient by the various teachers, the following literary and theoretical work is required of graduates in Courses I, II, III, and IV:

Harmony (Text by Emery), 8; History of Music (Baltzell), 4; Theory of Music (Elson), 2; Counterpoint and Canon (Ayers), 4; Ear Training (Heacox), 2; Appreciation of Music (Lecture Course), 2; Ensemble, 2; German, 8; French, 8; History, 4; Science, 3; College English, 3.

MUSIC BUILDING*

The aim of this course is a good foundation upon which to build the musical education and the forming of a correct musical taste. The time required for the completion of the course depends upon the age and ability of the pupil.

Grade I

Sight reading, ear training and rhythm work. Five-finger exercises, scale and chord formation, ensemble playing for concentration and time. Stories of the composers. Easy pieces and studies.

Grades II and III

Sight reading, ear training, rhythm work. A thorough knowledge of the major and minor scales. Intervals, chord formation, etc. Mason and Wiehmeyer Studies for touch and technique. Studies: Kohler, Loeschhorn, Gurlitt, Lambert, Schumann. Pedal study. Ensemble. Lessons in Musical History. For these grades "The Dunning System of Musical Study" is used.

Grade IV

Sight reading, theory, ear training.

"First Studies in Music Biography" (Tapper). Studies by Lambert, Czerny, Heller, Loeschhorn, Schumann. Leschetizky technique.

Grade V

Sight reading, ear training, theory, continued. The Faelton System for memory work and transposing. Leschetizky technique. Modern composers. Selected studies from Bach, Haydn, Mozart, Mendelssohn, Czerny, Heller. Ensemble work.

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*This course will be discontinued in June, 1914

SPECIAL ADVANTAGES

The following artists appeared under the auspices of the Conservatory and in the local lecture course during the season of 1913-1914:

Marion Green, Baritone.
Alfred Calzin, Pianist.
Hugo Kortschak, Violinist.
Elizabeth Pollender, Pianist.
Reed Miller, Tenor.
Agnes Kimball, Soprano.
Elsie Baker, Contralto.
Frederick Wheeler, Baritone.
Grace Hall Riheldaffer, Soprano.

The College Choral Club, of one hundred voices, welcomes singers with good voices and ability as sight readers. The Club presents two works each year with the assistance of prominent soloists. Cowen's "Rose Maiden," Coleridge Taylor's "Hiawatha" and choruses from popular grand operas were presented.

A Chorus Choir at the Presbyterian Church is under the direction of Mr. Veatch. Students who qualify may obtain valuable experience in solo, quartet, and choir singing by uniting with the organization.

The College Glee Club is an organization of young men. A home concert and a road tour are undertaken each season.

Weekly students' recitals are held, thus giving students ample opportunity for public appearance. A recital is given each semester by the faculty of the Conservatory.

A light opera is presented by the students of the Conservatory each season, thus affording opportunity for public experience and stage routine under competent direction. This year Gilbert and Sullivan's "Pirates of Penzance" was presented.

The College Orchestra meets regularly during the year, and has for its object the study and presentation of standard orchestral music. The orchestra accompanies the Choral Club at its public concerts.

GENERAL INFORMATION

Suggestions to Applicants for Admission

The requirements for admission to the College are presented on pages 14 to 16. For an understanding of the nature and scope of the courses of study of the College, the applicant should study the description of courses presented on pages 20 to 52. The Index at the end of this Catalog will direct him to the page on which any given subject is treated.

New students should arrive the Monday before the opening of a semester, so as to conclude all necessary arrangements. Young women may go directly to Wright Hall and consult the Dean of Women. Young men should come at once to the President's office.

Admission and Dismission

Applicants for admission to any department of the institution will first report to the President for registration. They must present testimonials of good character, and those who are from other institutions of learning must furnish certificates of standing and of honorable dismissal.

All students admitted to the institution will be on probation for the first three months. If during this period a longer stay is by the Faculty deemed inadvisable in the case of any student, he may be so informed privately and permitted to withdraw. Any student may at any time be privately dismissed if the Faculty deem his further connection with the school undesirable. All students entering the College accept these conditions of matriculation.

Any student against whom there are no unpaid bills nor charges of misconduct is entitled to an honorable dismissal.

STUDIES AND EXAMINATIONS

No student may take up a study out of the order prescribed in this Catalog nor drop a study once entered upon without the consent of the committee on schedules.

No student is allowed to take less than 12 hours of work, nor may he take more than 16 hours of work without special permission. An applicant for this permission must have maintained an average of B in the work of the previous semester.

Students whose class-work in the current semester averages below B- or who have more than two conditions, are not allowed to represent the College as delegates to conventions or as members of debating, oratorical or athletic teams.

Examinations are held at the close of each semester and at intervals during the semester at the discretion of the instructor. The results of examinations are reported to parents and recorded for future reference. In case of Freshmen a report of class standing is sent also at Thanksgiving recess and at the spring vacation.

If at any examination the standing of a student is unsatisfactory, he shall be duly informed and notice shall be sent to his parents or guardian. If there is no improvement, the student may be dismissed from college.

Conditions must be removed within one year from the time of the examination.

KINDERGARTEN WORK

The nature of the instruction in Kindergarten work makes small classes necessary. While a limited number of freshman women are admitted to this work, preference is given to young women who have already done college work for a year or two. Such preparation renders the kindergarten training more valuable, and makes the life outlook of the student broader and more satisfying. The College therefore urges young women to take at least a year of the regular college work before beginning the kindergarten training. The number of students permitted to begin this work each year is limited to fifteen.

CREDITS AND HONORS

By the marking plan which goes into effect in September, 1914, excellence in scholarship is recognized through a system of honor-points corresponding to the class standings received.

Class standings are indicated by letters. A, B, B-, C, C-, D are passing grades. But honor-points are earned by the first three letters only. For a grade of A in any subject three times as many honor-points will be given as there are hours in the course; for a grade of B, twice as many honor-points; and for a grade of B-, the same number of honor points. One hundred honor-points are required for graduation. For graduation *cum laude,* 200 points are required; for graduation *magna cum laude,* 250 points are required; and for graduation *summa cum laude,* 300 points are required.

DEGREES AND CERTIFICATES

The degree of Bachelor of Arts is conferred upon graduates from any group in the curriculum of study. Graduates from groups VII and VIII may, however, at their option, receive the degree of Bachelor of Science.

The Bachelor's degree will not be conferred upon a student unless he has been in residence during the year immediately preceding his graduation.

A Master's degree in any of the above-mentioned groups will be given to graduates of at least two years' standing who have pursued advanced studies under the direction of the Faculty, and given sufficient evidence of adequate attainments, including the submission of a satisfactory thesis.

Students who complete the prescribed courses in Kindergarten Training or a course in the Conservatory of Music, will receive certificates of the fact.

RULES FOR CLASSIFYING COLLEGE STUDENTS

1. For Sophomore standing a minimum credit of 40 hours is required; for Junior standing, 70 hours; for Senior standing, 100 hours.

2. No student shall be classified as a Sophomore who has any entrance conditions; nor as a Junior, who has any Freshman conditions; nor as a Senior, who has any Sophomore conditions.

COLLEGE BUILDINGS

There are at present six buildings on the College campus: the Recitation Building, Wright Hall, the Library, Hood Museum, the Gymnasium, and Pioneer Hall. In addition may be mentioned the building containing the central heating plant.

RECITATION BUILDING

The Recitation Building contains the College offices, the Chapel, numerous recitation rooms and laboratories, rooms for the Music Conservatory, and halls for the Zeta Sigma and Phi Phi Alpha literary societies.

WRIGHT HALL

Wright Hall, the home provided for the young women through the munificence of the late Ammi W. Wright, in architectural appearance and in adaptation to its purposes is not excelled by any building of its kind in the country. It is built of paving brick trimmed with stone, and is four stories in height above the basement, which is constructed of field stone. The interior finish is very pleasing and the arrangements for the comfort of the occupants are complete. Great care is being taken to surround this noble edifice with a fit setting of greensward, shrubbery and trees, that it may typify to coming generations of college students the ideal college home.

Unless excused by the Faculty, all young women are expected to live in Wright Hall, which is under the immediate supervision of the Dean. She is directly responsible for the government of the young women and will assign them their rooms and have the general supervision of their personal habits and activities. The young women to a large degree make and enforce their own regulations.

Parents and guardians are invited to communicate freely with the Dean touching the interests of their daughters and wards, thus enabling her to understand and meet the peculiar needs of each student.

Girls under sixteen years of age will not be received, except by special arrangement.

At the time of application for admission a deposit of $5.00 must be made by each student in order to secure a room. This sum will be credited on room rent or will be refunded if the student decides to withdraw, provided notice is sent a month before the beginning of the college year.

The rooms are single or arranged in suites and are furnished with single enameled couch bed and springs, felt mattress and pad, pillow, oak dresser, wash-stand with crockery, study table, bookcase, chairs and window shades. Each student must furnish her own towels, two pairs of sheets and pillow-slips, blankets or comforts, floor coverings and such conveniences and adornments as may be desired.

The price of single rooms is from $1.00 to $1.75 a week, according to size and location, most of them being $1.50 a week. A deposit of 50 cents is required for keys, which is returned on surrender of keys.

The boarding at Wright Hall is on a co-operative basis. The price of table board may vary as necessity requires. Meals are sent to rooms only in case of illness. For this an extra charge is made.

Wright Hall will be closed during the vacations.

Any young woman wishing to enter the institution should make application to the Secretary of the College at an early date, giving age and stating wishes as to room, courses of study, etc.

LIBRARY

The Library building contains the stack room, with shelving for 22,000 volumes, the large and well-lighted reading room and the Librarian's office. It is built of red brick trimmed with stone, is handsomely finished in hardwood, and is in all respects well adapted to its particular use.

In the Library building, besides the General Library, are the following special collections:

(1) The Pollasky Law Library.

(2) The Lucy Plum Mitchell Library of History and Political Economy.

(3) The Sarah H. Lancashire Library of Fiction.

(4) The Arthur Hill Library of Lincolniana.

(5) The Joseph W. Ewing Memorial Library of Pedagogy and Education.

(6) The Mary C. Gelston Library of Latin Language and Literature.

(7) The David M. Cooper Memorial Library of Ethics and Theology.

These collections contain 25,268 volumes and a valuable collection of pamphlets. There has been an increase of 631 volumes during the past year.

The collection embraces a great variety of works in Classical, English and Foreign Literature, in Biography and History, in the various Sciences and Arts, and is exceptionally well furnished with encyclopedias and complete sets of American and European reviews. They are classified and arranged according to the Dewey system, and an index of authors, titles and subjects places the contents of the Library at the command of all who are in search of information upon any subject.

Immediately adjoining the Library room is the Reading room, supplied with cases of reference books and the leading journals and periodicals of this country and England.

The Law Library, the gift of Marcus Pollasky, of Chicago, consists of 782 volumes, and, occupying a separate alcove, is, during library hours, accessible to members of the bar, who are cordially invited freely to avail themselves of its privileges.

The Library of Lincolniana, the gift of the late Hon. Arthur Hill, of Saginaw, fills a large case in the Reading room.

Both the Library and Reading rooms are open every week day during the term from 8 a. m. to 12 m., and from 1 p. m. to 5 p. m.; Saturday from 9 a. m. to 12 m., and from 1 p. m. to 5 p. m. Tuesday and Thursday evenings it is open from 7 to 9 p. m., Wednesday evening from 8 to 9 p. m.

Students may examine and use the books and periodicals during library hours, and draw one book at a time to be taken away and returned in one week, or, if renewed, one week later. Other persons are allowed to use the Library and Reading room freely, and on payment of an annual fee of $1.00 are permitted to draw books on an equal footing with the students. Transient visitors in town are charged twenty-five cents per month. Resident ministers of the gospel and their families are permitted to draw books free of charge.

During the past year the library has received gifts of books and magazines from the following:

San Diego Board of Commerce, Slason Thompson, Albert Gehring, A. L. Barton, H. P. Wood, State, U. S. Government, State of New York, Francis Dodds, G. L. Raymond, W. B. Barrows, Prof. A. P. Cook, University of Illinois, Dr. Clizbe, Rev. J. F. Jackson, University of Michigan, Dr. A. F. Bruske, Hinds, Noble & Eldridge, American Iron Institute, Gospel Trumpet Company, Miss Minnie Cheeseman, Harold V. Wilcox, Leora Johnston, President Blaisdell, Mrs. W. A. Bahlke, L. R. Taft, Mrs. L. L. A. Whaling and Mrs. Cora M. Wild.

FRANCIS A. HOOD MUSEUM

The Hood Museum of Natural History, the gift of Mrs. Francis A. Hood, of Saginaw, and Mr. Frank Hood, of Marinette, Wis., was finished and dedicated in June, 1900. It is built of rock-faced paving brick, trimmed with red sandstone. It is two stories and a basement in height, with slate roof, and is one of the finest structures on the campus. It has two large exhibition halls lighted in such a way as to give the largest possible space for the display of the collections. In the basement are storerooms and laboratories for the preparation of specimens, making the building one of the most complete and convenient museum buildings in the state.

In this building it is hoped that the Museum will become to students of Science what the library is to students of Literature and History, and it is proposed to make every specimen in it as accessible for study and comparison as the books in the library are.

The cases in use in the Museum are built of oak, constructed on plans furnished by the U. S. National Museum, and are provided with adjustable shelves, dust and insect-proof doors, etc. At present the geological and mineralogical collections are the only ones systematically installed. Additional cases for the Winchell collections of fossils and for the Albino deer, have been provided through the generosity of Mrs. Francis A. Hood, of Saginaw, and Mr. Frank Hood, of Marinette, Wis.

The collections in the Museum are:

(1) The Stillwell collection of Michigan birds and animals.

(2) The W. S. Crawford collection of birds.

(3) The Shroyer-Wilcox collection of palaeozoic fossils.

(4) The Alexander Winchell collection of rocks, minerals and fossils.

(5) The general geological and mineral collection.

(6) The general biological collection.

(7) The William S. Cooper collection of shells, minerals, and butterflies.

The Stillwell collection was made by a former resident of Alma, most of the specimens being collected in the vicinity of the College and representing some species now extinct or very rare for this locality. It numbers nearly 300 specimens and was obtained by purchase.

The W. S. Crawford collection was made by the donor in various parts of the United States, and has a variety of rare specimens of birds from Florida, Arizona and Michigan.

The Shroyer-Wilcox collection is a systematic collection of palaeozoic fossils, those of the Cincinnati group of rocks being especially well represented. It is valuable as a supplement to the other collections of fossils in the museum. It was acquired by purchase.

The Alexander Winchell collection is the largest and most valuable acquisition of the museum. The collection is that gathered by Professor Winchell during his long and active life as a geologist and teacher, and contains over 6,000 specimens, many of which were collected in Michigan by Dr. Winchell and described by him. These type specimens have an especial value. The collection was presented by friends.

The general biological collection contains representative vertebrate and invertebrate animal material, most of it yet to be arranged for exhibition, which has been collected during the history of the College. It will occupy the upper hall of the Museum. It is estimated to contain 2,000 specimens.

The general geological and mineral collection is installed in the east end of the lower hall of the museum and numbers 2,500 specimens. It has been obtained largely by small gifts from numerous friends.

THE GYMNASIUM

The Gymnasium building contains the studio of the Director of the Conservatory of Music, the Kindergarten rooms, the Gymnasium and an office. The rooms occupied by the Kindergarten department are large and well-lighted, and in every respect are well arranged for both school and recitation purposes. The Gymnasium occupies the entire upper floor of the edifice, and with its equipment of apparatus, the gift of Mr. John W. S. Pierson, of Stanton, Michigan, and Mr. Charles H. Davis, of Saginaw, Michigan, furnishes adequate facilities for athletic training. Here during the winter months, daily classes in physical culture offer to all the opportunity for that systematic training of the body which is so necessary to the health of the student.

PIONEER HALL

Pioneer Hall, one of the two original college buildings, is the dormitory for young men. The building is heated by steam and lighted by electricity. Both shower and tub baths, together with ample toilet conveniences, are provided in the basement. During the past summer the building has been entirely remodeled at a cost of nearly $9,000. It is now as good a dormitory for men as is found in the State.

Students living in the building are loosely organized for student government. They make their own regulations and enforce them, being advised by the president and a faculty committee. This form of government has been satisfactory.

Rooms in Pioneer Hall are provided with bed, springs, mattress, table, chairs, bookrack and wardrobe. Students must furnish for themselves towels, sheets, pillow slips, and blankets. They also pay for laundering these articles. Rooms are from $1.00 to $1.25 a week for each occupant, plus the proportionate cost of electric light. Upon engaging a room each applicant deposits $2.50 to meet any damages that may be assessed against him. This deposit is returned if for any reason the room should not be desired and due notice is given before August 15th. For his room key each student deposits fifty cents, which is refunded when the key is returned. Young men desiring to engage rooms should address the Secretary of the College.

THE LABORATORIES

The equipment of the physics laboratory is ample for experimentation in mechanics, hydrostatics, light, heat, sound and electricity. The laboratory is supplied with gas, water, tables, and other appliances which add materially to its facilities for scientific work.

The biological laboratory is furnished with all necessary apparatus for thorough and practical work. The equipment consists of a sufficient number of compound and simple microscopes, microtomes, paraffin baths, air and water nets, collecting boxes, etc., for individual field and laboratory work.

The chemical laboratories occupy the entire basement of the east wing of the recitation hall.

The general laboratory is fitted up with tables, apparatus and chemicals, and will, as arranged at present, accommodate twenty-four students. Each desk is supplied with gas and water, re-agents and necessary apparatus. Particular attention has been given to procuring apparatus for hastening tedious processes as much as possible, and to convenience of arrangement.

The quantitative laboratory is equipped with three fine weighing balances, blast lamps and combustion and crucible furnaces, and is provided with a large ventilating hood.

The organic laboratory has a good ventilating hood, balance, hot air and water ovens, Kieldahl's apparatus for the determination of nitrogen, fat extractors, a polariscope, and such other apparatus as is required for its work.

The chemical department also possesses a fine spectroscope and a sufficient amount of miscellaneous apparatus for thorough, practical work. A reference library consisting of some of the latest chemical books is kept in the laboratory for the use of students.

A fine projecting and reflecting lantern has been added to the equipment of the laboratories.

DAVIS ATHLETIC FIELD

The generosity of Mr. Charles H. Davis, of Saginaw, provided the College in 1902 with a modern athletic field. About five acres of the campus not far from the Gymnasium was perfectly graded, drained, surrounded with a high board fence, and equipped with football field, baseball diamond, quarter-mile cinder track, bleachers, and a grand stand. Water mains bring running water to the Field. Outside the Field are several tennis courts. In 1912 Mr. Davis added an imposing entrance gate, which renders the Field one of the most attractive as well as one of the most adequate among the college fields of the Middle West.

RELIGIOUS ORGANIZATIONS

Throughout its history the students of the College have maintained a Young Men's and a Young Women's Christian Association. The members of these organizations strive to meet new students upon their arrival at Alma and assist them in registering, in finding rooms, and in becoming comfortably located. At the opening of each semester they hold social affairs for the purpose of promoting acquaintance. A union religious meeting is held on Wednesday evenings and separate meetings on Sundays. These meetings aim to develop true manliness and womanliness and to make clear that real religion is a thing of works as well as of faith. The organizations maintain voluntary Bible classes and send out leaders to organize and conduct mission Sunday schools. A band of Student Volunteers to mission work is regularly maintained. The Associations unite with the Faculty in conducting special meetings during the college week of prayer. In February, 1914, the special speakers were Mr. B. B. Johnson, of the State Y. M. C. A., and Dr. J. T. Thomas, of the Westminster Presbyterian Church, Grand Rapids. Christian manhood and womanhood is the aim of these Associations. Consequently they appeal to practically every student that comes to Alma.

DIVISIONS OF THE COLLEGE YEAR

For purposes of administration and instruction, the year is divided into semesters of eighteen weeks each, the first opening about the middle of September, the second about the first of February. The usual holiday and spring vacations divide the year into three terms of about twelve weeks each.

For the dates of the opening and the closing of terms and semesters, see Calendar at the beginning of this Catalog.

ORATORY AND DEBATES

Alma College is a member of the Michigan Inter-Collegiate Oratorical Association, which conducts two contests, one for men and one for women, on the first Friday in March of each year. The college is also a member of the Alma-Hope-Olivet League and meets each of these colleges in debate annually. Preliminary trials to decide upon contestants in the different competitions are scheduled during the year as follows:

Freshman Oratorical Contest (men)	First Friday in November
Freshman Oratorical Contest (women)	Second Friday in November
Men's Oratorical Contest	First Friday in December
Women's Oratorical Contest	Second Friday in December
Prohibition Contest	Third Friday in February
Women's Reading Contest	Third Friday in April

The management of these local contests is under the charge of the local Oratorical Association and the Debating League.

LITERARY SOCIETIES

Two literary societies, Zeta Sigma and Phi Phi Alpha, are conducted by the young men of the College, and three, Alpha Theta, Philomathean and Froebel Club, by the young women. The aim of these societies is the development of a correct literary taste and of the power of precise and ready expression.

COLLEGE PUBLICATIONS

"Alma College Bulletin" is published monthly by the College. This publication aims to keep the alumni, schoolmen, high school students and friends in touch with the work, the progress, the needs and the prospects of the College. It is sent without charge to all who may apply, either for single issues or for a place on the permanent mailing list. The College Catalog makes one of the issues.

"The Almanian" is a student publication and is issued weekly during the college year. It is conducted by a board of editors who aim to make it a faithful reflector of college life in all its phases, as well as a consistent supporter of the interests of the institution from the standpoint of the student body.

"The Maroon and Cream" is the College annual published in May by the Junior class. It epitomizes the student activities of the year.

THE CLASSICAL CLUB

The Classical Club is conducted by the students of the Ancient Languages under the supervision of the instructors in Greek and Latin. The aim of the Club is the promotion of an interest in classical literature and archaeology. Meetings are held once a month during the college year.

THE SCIENCE CLUB

The Science Club was organized for general scientific research and for study in particular of the plants, animals and geology of the region in which the College is located. Meetings are held once a month during the college year.

THE EUTERPE MUSICAL SOCIETY

This society is conducted by the members of the Conservatory of Music, who meet at regular intervals during the college year for the study of the lives and works of the masters in music.

THE LYCEUM COURSE

It is conceded that an important means of education is the popular lecture and entertainment course. Through it all classes of the community are brought together for the purpose of hearing and enjoying the best talent on the public platform. Alma has had such a course in successful operation for more than a dozen years. It is managed by a committee representing both the college and the city. For the present year the following numbers constitute the course:

The Oratorio Artists.
The Killarney Girls.
Dr. Herbert L. Willett.
Judge George D. Alden.
Bohumir Kryl and Company.
Cantata, "Ruth" (extra number).
Montraville Wood.

AID FOR STUDENTS

Students of limited means who expect to complete a regular college course at Alma can usually obtain reasonable aid upon application to the President, who will bring their cases to the consideration of the Committee on Aid to Students. This committee administers an all too small Aid Fund. Students partaking in this fund are expected ultimately to return the amount which they have received unless they enter into a life work which is so purely missionary as to render such return a burden. No interest is asked, although often beneficiaries prefer to pay interest.

Generous minded friends, even though they can give but little, can scarcely do better with their gifts than to add them to this Student Aid Fund.

Students preparing for the ministry of the Presbyterian Church can secure as much as $100 a year from the Board of Education, if they need help and if they are recommended by their home Presbytery.

The children of home and of foreign missionaries are granted scholarships yielding $30 per year when they are regular students of the College.

The College has forty-seven permanent scholarships, most of which yield $30 per year, besides a varying number of annual scholarships supported by Alma alumni organizations, by individuals, and by churches. These scholarships are administered, in varying ways, by the faculty committee. A few go to persons designated by the donors. A few are granted on a basis of excellent class work. Most, however, are awarded to students of promise who have real need of help. Young men receiving scholarships are expected to abstain from the use of tobacco, while all thus aided are expected to return to the college through help rendered a part of the value of the scholarship received, unless specifically excused because of exceptionally exacting duties. Scholarships are usually granted for a year. They may be withdrawn, however, at the end of the first semester if recipients fail to do satisfactory work.

Scholarships thus administered become a help to the college as well as to the student. The demand for scholarships is regularly greater than the supply. Friends, Sunday schools, churches, woman's clubs, or other organizations interested in helping young people, are invited to correspond with the President with reference to assuming a scholarship or part of a scholarship.

A number of students can usually find employment in the homes, stores, hotels, or boarding houses of Alma. The College too is at times able to give work to some young men and young women. Students having a hundred dollars with which to begin a freshman year can usually complete a college course without interruption, provided they have health, energy, and a willingness to do faithful work.

PERMANENT SCHOLARSHIPS

Permanent scholarships, most of them representing an endowment of $500 and yielding $30 per year in tuition, have been made available by generous friends of youth and of the College. The scholarships thus held are as follows:

Name.	Donor.
Mrs. C. P. Colvin	Mr. C. P. Colvin, Saginaw
Thomas Merrill	Mr. Thomas Merrill, Saginaw
Memorial Presbyterian Church	Rev. D. M. Cooper, Detroit
Laurense	Mr. Leonard Laurense, Detroit
Martha P. Seeley	Mr. John F. Seeley, Caro
Harry G. Kelton	Mr. and Mrs. J. M. Kelton, Bay City
Charles D. Chatfield	Mr. Clarence B. Chatfield, Bay City
Lucy Plum Mitchell	Prof. Jas. E. Mitchell, Alma
Louis Penoyer Memorial	Mrs. Emeline Penoyer, Saginaw
Edith M. Davis	Mrs. Edith M. Davis, Saginaw
Alba A. Lull	Mr. Alba A. Lull, Pontiac
Martha B. Heartt	Mr. William A. Heartt, Caro
William A. Heartt (four)	Mr. William A. Heartt, Caro
First Presby. Church	First Presby. Church, Saginaw
David M. Ladd, Memorial	U. P. and C. Church, Milford
Marion H. Plum	Mr. J. H. Plum, Indianapolis, Ind.
Helen Anderson Tanner	Mr. M. W. Tanner, Saginaw
Watson B. Robinson	Mr. James W. Robinson, Alma
Theodore D. Marsh	T. D. Marsh, D. D., Grand Rapids
Harriet Barton Wright, Memorial	Mrs. J. H. Lancashire, Manchester, Mass.
Margaret N. Thorburn	Mr. Jas. T. Thorburn, Detroit
John Cameron	Trumbull Ave. Presbyterian Church, Detroit
J. Ambrose Wight	First Presbyterian Church, Bay City
Katherine M. Inglis	Mr. Thomas Merrill, Saginaw
Brownell (eight)	Mrs. Mary E. D. Brownell Estate, Detroit
William E. Rohlfs	Many friends
Grace Church, Saginaw	Mr. Thomas Merrill, Saginaw
Francis King	Mr. Francis King, Alma
M. S. Smith	Mrs. Helen Smith Deming, Detroit
Hazel B. Garland	Mr. Arthur Garland, Howell
Nathan B. Bradley	E. E. and F. W. Bradley, Bay City
Horace B. Silliman	Dr. Horace B. Silliman, Cohoes, N. Y.
John P. Cleaveland	First Presbyterian Church, Detroit
Westminster	Westminster Presbyterian Church, Bay City
Frederic Conover	Mr. and Mrs. C. A. Conover, Coldwater
Gould (two)	Mrs. Helen Gould, Saginaw

ANNUAL SCHOLARSHIPS

From March 1, 1913, to February 1, 1914, the following Annual Scholarships or parts of scholarships were received by the College:

From the Presbyterian Church of Adrian, $30.00; Albion, $30.00; Battle Creek, $30.00; Chicago (Drexel Park), $30.00; Saginaw (Warren Avenue), $30.00; Tecumseh, $30.00; Pontiac, $30.00.

From individuals and associations: Mrs. Mary Plum Bruske, Detroit, and Miss Florence H. Plum, Cleveland, O., $30.00; Mr. Fred R. Perry, Detroit, $40.00; Mr. Henry H. Soule, Alma, $30.00; Mrs. W. L. Curtis, Petoskey, $40.00; Mrs. Louisa Y. King, Alma, $40.00; Eastern Alumni Association, $40.00; Detroit Alumni Association, $20.00.

UNIVERSITY FELLOWSHIP

The University of Michigan presents annually to a graduate of Alma a fellowship carrying an honorarium of $300. The recipient gives to the University some return in service, but has most of his time free to pursue advanced studies. The Fellow is chosen by the Alma faculty. A member of the senior class or a graduate of not over four years' standing is eligible. Mr. H. O. Whittemore represented Alma in 1912-1913, studying landscape designing; Mr. Claude W. Satterlee in 1913-1914, studying mathematics; Miss Faith M. Welton has been chosen for 1914-1915.

HONOR SCHOLARSHIPS

The Silliman and Brownell Scholarships, each amounting to $50 in tuition and fees, are to be awarded annually at the close of the first semester to a young man and a young woman in the Junior class, of evangelical belief and exemplary conduct, who have the highest scholarship records, as determined by honor points, in the studies of the Freshman and Sophomore years.

PRIZES

Greek Prize. The income of the Justin Marsh Fund is awarded every second year to the student receiving the highest grade in New Testament Greek.

Oratorical Prizes. Rev. W. H. Mason, pastor of the Presbyterian Church, Alma, offers a gold medal annually, to the young man winning first place in an oratorical contest conducted under these conditions:

1. There must be at least six contestants.
2. The contest must take place before Christmas.
3. The winner may not contest a second time. He may, however, challenge another winner to determine which of them shall represent the college at the state contest.

The donor offers a gold medal under similar conditions for a women's contest.

EXTENSION WORK

The College has established an Extension Division, which includes (a) Saturday and evening work in Alma and adjoining communities; (b) Correspondence work; (c) Lectures in convenient communities; (d) Lyceum courses made up of lectures, musical entertainments, and readings. A special bulletin is issued containing full particulars concerning this work. Those interested are invited to ask for a copy.

As part of this work the Library offers its services to high school instructors who are helping students in the preparation of debates and of orations. This service is without charge. The Library also will lend books to ministers who are reading along special lines, the only charge being the payment of postage. Suggestions relative to helpful books will be made to those who apply. For this service address Librarian, Alma College, Alma, Mich.

A Summer Session will be held from June 22 to July 30, 1914. Any interested are asked to apply for the special bulletin.

A Training School for Sabbath school workers will be held from July 20 to July 26, with a large faculty of experienced teachers and lecturers. Ask for the special bulletin.

A Summer Graduate School for Ministers will be held from July 20 to August 1, to which ministers of all denominations will be welcome. A special bulletin tells of it.

EXPENSES

Wright Hall.	
Board, in Co-operative Boarding Club, $3.10 to $3.20 per week	$112.00 to $115.00
Room rent, for the year	$36.00 to 72.00
Pioneer Hall.	
Room rent, one in a room, for the year	$36.00 to 45.00
Room rent, two in a room, for the year, each	$36.00 to 45.00

COLLEGE.

Tuition bill $20.00, for the year	40.00

MUSIC SCHOOL.

Lessons in Voice—With Director.

One thirty-minute lesson a week, per semester	$25.00
Two thirty-minute lessons a week, per semester	45.00
Three thirty-minute lessons a week, per semester	60.00

With Assistant.

One thirty-minute lesson a week, per semester	$15.00
Two thirty-minute lessons a week, per semester	25.00
Three thirty-minute lessons a week, per semester	35.00

Lessons in Pianoforte, Pipe Organ and Violin.

One thirty-minute lesson a week, per semester	$18.00
Two thirty-minute lessons a week, per semester	30.00
Three thirty-minute lessons a week, per semester	40.00

With Assistant.

(Same rates as with Assistant in Voice.)

Harmony, per semester	$ 8.00
History, per semester	6.00
Theory of Music, per semester	5.00
Ear Training, per semester	4.00
Counterpoint and Canon, per semester	5.00
Methods	10.00
Preparatory or Music Building, per term of six weeks, two lessons a week	6.00

Use of Piano.

One hour per day, per semester	$ 4.00
Two hours per day, per semester	6.00
Three hours per day, per semester	8.00

Classes in Sight Reading and Musical Appreciation are free to all students. Reasonable fees for piano rental. Small fee for Choral and Glee Clubs.

OTHER CHARGES.

Matriculation fee (paid but once)	$ 5.00
Incidental fee, per semester	5.00
Diploma fee	5.00
Certificate fee	1.00
Laboratory fee, Chemistry, per semester	5.00
Laboratory fee, Biology, per semester	3.00
Laboratory fee, Physics, per semester	5.00

REMARKS

Students taking one to five hours per week, pay no incidental fee; those who take from six to nine hours per week, pay $2.50 per semester; those who take ten or more hours per week, pay $5.00 per semester.

Music students taking at least two lessons a week, are allowed to take work in College classes to the extent of five hours a week without extra charge.

Tuition bills in all departments must be paid by the semester in advance, and board at Wright Hall and room rent in either dormitory, by the month in advance.

In the College the regular expenses for the year are about $240, distributed thus: Tuition, $40; incidental fees, $10; room rent, $36; table board, $112 to $115; books, $20; laundry, etc., $17. For rent, board, books, laundry, etc., much more may be spent, while some students will spend somewhat less. Personal expenses will be what the habits of the student demand.

Some students pay their room rent by caring for the furnace and by doing other work in private homes; some earn board or both room and board by work in hotels, restaurants, and boarding houses. Many are paid for Saturday work in stores and elsewhere. The student having $100 can come to Alma with confidence that he can get through a college year and a college course, if he is willing to work hard. For young women the opportunities are less numerous than are those for young men, but many young women are earning a large part of their expenses.

ALUMNI ASSOCIATIONS

CENTRAL ASSOCIATION

President............William H. Long, '98, Ithaca
Vice-President.....Harry A. Craig, '09, Charlevoix
Secretary-Treasurer.....Sadie Messinger, ''03, Alma

The Association was formed by the class of '91. It has had a vigorous growth and has come to be regarded as an important and influential college organization. All alumni and former students of the college are eligible to membership. Its biennial meeting is held on the Wednesday of Commencement Week, which has been designated as Alumni Day.

ALUMNI CLUB OF CHICAGO

President..................Abram J. Van Page, '97
Vice-President...................George A. Hill, '00
Secretary-Treasurer..........Mrs. Cora Mason Flint

Next annual meeting, February 20, 1915.

The Secretary's address is 4037 Sheridan Road, Chicago.

ALUMNI CLUB OF DETROIT

President	Wallace F. Webber, '03
Vice-President	Arthur R. Moon, M. D.
Secretary-Treasurer	Lillian Jackson

The annual meeting, the first week in April.
Secretary's address, 129 Richton Ave., Detroit.

ALUMNI CLUB OF NEW YORK

President	Watson B. Robinson, '01
Vice-President	Israel Himelhoch
Secretary-Treasurer	E. Blake McDonald

The annual meeting, the first Friday in May.
Secretary's address, 420 W. 57th St., New York.

ALUMNAE ASSOCIATION OF THE KINDERGARTEN TRAINING DEPARTMENT

President	Mrs. Kate Coddington, '03, Detroit
Vice-President	Mrs. Harriet Hudson, '03, Alma
Secretary-Treasurer	Miss Edna Swigart, '01, Alma

DEGREES CONFERRED

At the Commencement of the College held June 12, 1913, the following degrees were conferred:

HONORARY DEGREES

The Degree of Doctor of Divinity Upon

John Brittan Clark	Washington, D. C.
Angus H. Cameron	Detroit
J. Ambrose Dunkel	Saginaw
Alexander Watt Johnstone, Ph. D	Cadillac

DEGREES UPON EXAMINATION

The Degree of Master of Arts Upon

Mrs. Carolyn A. Butler-Fairman	Chicago, Ill.

The Degree of Bachelor of Arts Upon

William Arthur Ewing	Alma
William Allen Hooper	Alma
John Lee D. B. Landon, *cum laude*	Detroit
Lester Von Thurn	St. Louis

The Degree of Bachelor of Philosophy Upon

Margaret Pollock Boag, *cum laude*	Calumet
Marion Beryl Broderick, *cum laude*	Detroit
Susanna Lute Brown	Farwell
Clara Elizabeth Hanel, *cum laude*	Elk Rapids
Emily Maude Hooper, *cum laude*	Alma
Leon A. Kolvoord, *cum laude*	Allegan
Bernice Edna Latson, *cum laude*	Howell
Oral Mirvin Meisnar, *cum laude*	East Jordan
Marguerite Rachel O'Neill, *cum laude,*	S. S. Marie
Della Struthers, *cum laude*	Pontiac
Edward Archibald Thompson	Caseville
Bernice Walker, *magna cum laude*	Alma

The Degree of Bachelor of Science Upon

George Joseph Brilmyer	Milford
Andrew Clifford Edgerton	Cass City
Wade Lawrence Frost	Tecumseh
Chalmers A. Monteith, *cum laude*	Martin
Ruth Marian Robbins	Iron Mountain
Marian Rounsifer	Howell
Marian Easter Hartness	Ashland, Wis.
Claud Webster Satterlee, *magna cum laude,*	Detroit
Rex Edward Van Duzen	Breckenridge, Mich.

The Degree of Bachelor of Pedagogy (three-year course) Upon

Joyce Rhoda Fairweather	Imlay City, Mich.

COLLEGE HONORS

Salutatory	Bernice Walker
Group I—Latin-Greek	John L. D. B. Landon

Group II—History-Economics	Leon A. Kolvoord
Group III—English-Modern Language	Bernice Walker
Group IV—English-Latin	Marguerite Rachel O'Neill
Group VII—Mathematics-Science	Claud Webster Satterlee
Valedictory	Claud Webster Satterlee

CERTIFICATES GRANTED

At the Commencement of 1913 certificates were granted as follows:

A State Teacher's Certificate to

Margaret Pollock Boag.
George Joseph Brilmyer.
Marion Beryl Broderick.
Susie Lute Brown.
Andrew Clifford Edgerton.
William Arthur Ewing.
Della Struthers.
Clara Elizabeth Hanel.
Marian Easter Hartness.
Emily Maud Hooper.
Leon A. Kolvoord.
John L. B. D. Landon.
Bernice Edna Latson.
Edward A. Thompson.
Bernice Walker.
Oral Mirvin Meisnar.
Chalmers A. Monteith.
Marguerite R. O'Neill.
Ruth Marion Robbins.
Marion Rounsifer.
Claude Webster Satterlee.
Lester Von Thurn.

A State Kindergarten Certificate to

Marcella Pauline Adams	Alma
Bess Beatrice Bishop	Charlotte
Josephine Louise Butler	Elk Rapids
Anna Louise Fralick	Flint
Marion Easter Hartness	Ashland, Wis.
Ellen Marguerite Mahoney	St. Charles
Rosaline Bendetson Netzorg	Elsie
Esther R. Shepherd	Adrian
Valetta Soper	Alma
Mabel Wyant	Alma

A Certificate in Music to

Florence E. Rozema (Piano)	Britton, S. D.
Theo. Amsbury (Piano, Post Graduate)	*Alma*

CONTRIBUTIONS

FROM MARCH 1, 1913, TO FEBRUARY 1, 1914.

The following Presbyterian churches have contributed to the Endowment of the Chair of English Bible and Theism:

Bay City, First, $7.40; Westminster, $14.00; Brighton, $2.00; Calumet, $25.00; Caro, $15.00; Coldwater, $5.00; Concord, $2.35; Detroit, Cadillac Avenue, $2.00; Calvary, $10.00; Church of the Covenant, $10.00; Jefferson Avenue, $15.00; Memorial, $5.00; St. Andrews, $3.92; Scovel Memorial, $10.00; Edwardsburg, $2.00; Evart, $4.20; Flynn, $3.00; Highland Park, $11.25; Hillsdale, $12.00; Houghton, $5.00; Grand Rapids, Westminster, $28.00; Marlette, First, $5.00; Marlette, Y. P. S. C. E., $5.00; Mason, $5.00; Menominee, $12.00; Munger, $4.75; Palmyra, $5.00; Saginaw, First, $33.58; St. Ignace, $0.70; Sandusky, $3.00; Spring Lake, $1.00; Sturgis, $5.00; Three Rivers, $6.00.

Bequests to the Endowment were received from the estates of Mrs. Helen Gould, late of Saginaw, $900.00; Mr. Henry C. Patterson, late of Lapeer, $5,691.55.

Receipts for current expenses and miscellaneous purposes: Mr. Charles Moore, Detroit, $10.00; Bethany Presbyterian Church, Detroit, $20.00; Church of the Covenant, Detroit, $10.00; Highland Park Church, $10.00.

The Register of Students

THE COLLEGE

SENIORS

Emily Eleanor Beach..............................Detroit
English and History

Ruth Mary Cook....................................Alma
Latin and Greek

Celia Creaser ....Alma
English and History

Leon Duane Gray...........................Breckenridge
Chemistry and Philosophy

Rose Carol Gray.............................Breckenridge
Latin and Greek

Theodore Shirley Higbee...............................Alma
Chemistry and Biology

Bertha Belle Hubbell..................................Alma
English and History

Milo Arthur V. Hogan...............................Detroit
Latin and Greek

Carroll C. Hyde.......................................Addison
Chemistry and Biology

Fred Samuel Johnson..............................Cadillac
History and Oratory

Alice Virginia Kennedy..........................St. Louis
English and Latin

Archie Ruben Maybee..............................Hudson
Mathematics and Biology

F. Roy Phillips.......................................Shabbona
Mathematics and Biology

Verne E. Rogers...................................Tecumseh
History and Economics

Meryl Lora Seaver...............|...............Pompeii
Latin and German

Walter Albert Vogt................................Palmyra
Mathematics and Chemistry

Faith Mabel Welton.........................Grand Rapids
Latin and Greek

JUNIORS

Margaret Bertine Allen.................................Alma
Latin and German
Paul Henry Austin.................................Monroe
Mathematics and Chemistry
Clifford William Carey.............................Bad Axe
History and Economics
Sidney Perry Cook.......................................Alma
Latin and Greek
Clyde Jacokes Creaser.................................Alma
Mathematics and Chemistry
Gladys Noll Dershem............................Chicago, Ill.
History and German
Albert James Esselstyn.............................Lansing
Chemistry and Biology
Esther Halverson ....Emerson
Latin and German
Harry Donovan Jackson.................................Alma
Mathematics and Chemistry
Arden S. Johnson...................................Hilliards
Mathematics and Chemistry
Clarence R. Goodrich...............................Cadillac
Mathematics and Chemistry
Bryson H. McCloy.............................Fair Grove
History and Economics
Beulah L. Parr..Alma
English and History
Ralph Edgar Peacock....................................Evart
Chemistry and Biology
Arthur Hartt Simenton..............................Marlette
History and Economics
Addison Wilson ....Alma
History and English
Alger H. Wood...Alma
History and Economics

SOPHOMORES

Oscar M. Anderson....................................Omena
Edward Bahlke..Alma
Eva Barnes ....Charlotte
Alonzo Wallace Beshgetoor..........................Alma
Mary Blaisdell ....Alma
Gladys Grace Bond.............................Ann Arbor
Marcia Ann Carl.......................................Howell

Marjorie Ann Chase	Belding
Ralph Chisholm	Breckenridge
Hazel Calvena Clark	Ithaca
Maurice Farrand Cole	Paw Paw
Grant Lisle Cook	Brant
Margaret Ann Duncanson	Cass City
Homer Dunham	Alma
Gretchen Eyer	Alma
Leof Laura Fellows	Marlette
Hymie Friedman	Tawas City
Theodore Gates	Vestaburg
Auda Cleo Gill	Pellston
Florence May Henderson	Detroit
Lucille Holland	Sheridan
Lula Mae Huber	Stanton
Milton Jackson	Alma
Ilma E. Johnson	Grand Ledge
Edna Verbelle Kuhlmann	Alma
Frankie L. Kuhlmann	Alma
Montie McFarlane	Linwood
Arthur John McIntyre	Alma
Hazel Christina McKenzie	Laurium
T. Lucille McQuade	Detroit
Lydia May Malpas	East Jordan
Ethel Grace Moore	Detroit
Stephen Sutherland Nisbet	Twining
Marion Louise Parsons	Charlevoix
Lila Redmond	Marlette
Madeleine Young Reynolds	Lansing
Hazel Eugenia Robbins	Iron Mountain
Thomas Arnold Robinson	Alma
Harry John Schultz	Bay City
William Herman Schultz	Bay City
Ruth Stacy	Coshocton, Ohio
Ethel Grace Thompson	Caseville
Verne Levi Van Duzen	Breckenridge
Bertha Wagener	Harbor Beach
Zula Walters	Potterville
Irene B. Warner	Sandusky
Beatryce Whitelem	Harbor Beach
Bertha Delena Williams	Bad Axe

FRESHMEN

Helen Jane Atwood	Caro
Ernest Edgar Bacon	Alma

Irene Lucille Baker	Gladstone
Martha Adelaide Ballou	Stanton
Ray V. Beshgetoor	Alma
Rudolph Alvin Beyer	Detroit
Ruth H. Browning	Iron Mountain
Elmer John Cresswell	St. Louis
Clifford Nelson Cumming	Alma
Amoretta M. DeWitt	Spring Lake
Jessie Jane Duncanson	Cass City
Helen B. Eames	Muskegon
Ruth Helen Ellis	Holly
Floyd Ferguson	Saginaw
Isadore Friedman	Tawas City
Aura Mae Funnell	Norwalk, Ohio
Jane Stuart Green	Saginaw
Clarence J. Halteman	St. Louis
Flossy B. Hoover	Harbor Springs
Effie Marion Horne	Bay City
Bernice Myrtle Ireland	Grand Ledge
Ed Guy Johnston	Yale
Gladys Kelley	Harbor Beach
John Ezra Ludwick	Grand Ledge
Robert Eugene McAllister	Oak Park, Ill.
J. A. Bannerman MacAuley	Calumet
Pauline Markham	Charlevoix
Lois Ethel May	Stockbridge
Kenneth Merriman	Imlay City
Mary Ellen Mitchell	Port Huron
Henry Mosley	Alma
Eloise Muncie	Olney, Ill.
Vera Parker	Traverse City
Francis T. Patterson	Reed City
Marie Pegg	Iron Mountain
Margaret Robinson	Grand Haven
Mary Elizabeth Rubert	Howell
William C. Searl	Ithaca
Juno Marie Shepard	Alma
Mark Loomis Spinney	Alma
Errol Ruddock Stafford	Cadillac
Harry Wilfred Staver	Saginaw
Bernice Novelle Sweet	Merrill
Josephine Maginnis Taylor	Ionia
Marowee Louise Thayer	Northville
Beulah Elizabeth Thompson	Harbor Springs
Martha Ann R. Townsend	Brown City
Elfleda Udelle	Alma

Frida Volz	Saginaw
Edna Ward	Charlevoix
Jennie Waterman	East Jordan
Pauline Marie Wescott	Caro
E. Frank Whittington	East Jordan
Norma Irene Wight	Yale
Margaret Allida Yerkes	Northville

IRREGULAR

Besvin Anderson	Elk Rapids
Cassius R. Beechler	Ithaca
Efford Beverly	Alma
Kate C. Blaisdell	Alma
Dallas D. Brock	Alma
Allan French	Detroit
William Wilbur Greene	Deckerville
Herbert Hall	Alma
Merrill Hyde	Addison
Wilhelmine Augusta Ritter	New York City

STUDENTS IN SUMMER SESSION
1913

Marcia A. Carl	Howell
Genevieve M. Doyle	Breckenridge
Cora S. Dunlap	Alma
Frank E. Ellsworth	Alma
R. Carol Gray	Breckenridge
Annette McLaren	Alma
Bertha McLaren	Alma
Archie R. Maybee	Alma
R. J. Shiflet	New Troy
Esther B. Smith	Alma
Harold V. Wilcox	Alma
Margaret Winn	Alma
Margaret Wilson	Alma
Addison Wilson	Alma

THE CONSERVATORY OF MUSIC

VOICE

Oscar M. Anderson	Omena
Helen Atwood	Caro

Eva Barnes	Charlotte
Rudolph Alvin Beyer	Detroit
Lena Beverly	Alma
Lula Blackman	Wheeler
Charles Bope Butler	Bad Axe
Ralph Chisholm	Breckenridge
G. S. Crisp	Pittsford
Zolau Cullen	Davison
Alberta Dunham	Alma
Ruth Ellis	Holly
Bonnie Fuller	White Cloud
C. Gallagher	Cass City
Velma Gilmore	Big Rapids
Lillian Goll	Breckenridge
Blanche Healy	Bad Axe
Theodore Higbee	Alma
Ward Hodge	Breckenridge
Earl Holmes	Alma
Bertha Hubbell	Alma
Alice Kennedy	St. Louis
Edna Kuhlman	Alma
H. Kuhlman	Alma
Edna Lee	Bay Port
Edward Mahr	Alma
Mabelle Page	Alma
Elsie Palin	
Francis Patterson	Reed City
Francis Radij	Cadillac
Mary Rose	Ashley
Florence Rozema	Britton, S. D.
Donald Smith	Alma
Elizabeth Taft	Alma
Zula Walters	Potterville
Glenn Y. Warner	Alma
Pauline Wescott	Caro
Norma Wight	Yale
Addison Wilson	Alma
Lorna Woodruff	De Witt

PIANO

Theo. M. Amsbury	Alma
Eva Barnes	Charlotte
Lulu Blackman	Wheeler
Mary Blaisdell	Alma
Gladys Bond	Ann Arbor

Ruth Cook	Alma
Hazel Clark	Ithaca
Zola Cullan	Davison
Amoretta De Witt	Spring Lake
Aura Funnell	Norwalk, Ohio
Mrs. Fuller	White Cloud
Bessie Gilbert	St. Louis
Blanche Healy	Bad Axe
Edith Hooper	Alma
Flossy Hoover	Harbor Springs
Bernice Ireland	Grand Ledge
Edna Lee	Bay Port
Ruth Marvin	Alma
Kenneth Montigel	Alma
Ruth Menzies	Yale
Ruth Palmer	Alma
Vera Parker	Traverse City
Marie Pegg	Iron Mountain
Lila Redmond	Marlette
Mabel Reed	Alma
Hazel Robbins	Iron Mountain
Margaret Robinson	Grand Haven
Mary Rose	Ashley
Florence Rozema	Britton, S. D.
Ethel Rhynard	Perrinton
Ruth Stacy	Cochocton, Ohio
Emma Swigart	Alma
M. Louise Thayer	Northville
Bernice Walker	Alma
Edna Ward	Charlevoix
Irene Warner	Sandusky
Faith Welton	Grand Rapids
Bertha Williams	Bad Axe
Lorna Woodruff	De Witt
Margaret Yerkes	Northville

VIOLIN

James Allen	Alma
Lena Beverly	Alma
Earl Cross	Alma
Clifford Cummings	Alma
Joseph Ford	Alma
George Green	Breckenridge
Marie Haefliger	Alma
Elsie Lindner	Alma
Lennie Lord	Alma
Joseph Silhavy	Alma

MUSIC BUILDING

Ruth Halverson	Emerson
Ivah Perrigo	Forest Hill
Helen Selby	North Star
Helen Grimm	Alma
Emily Fryckholm	Alma
Ruth Menzies	Yale
Milton Jackson	Alma
Otis Fuller	Alma
Bernice O'Melia	St. Louis
Alethe Baldwin	St. Louis
Esther Lettick	St. Louis
Mrs. I. F. Hilsinger	St. Louis
Mrs. G. W. West	St. Louis
Joe Whitney	St. Louis
Frank Whitney	St. Louis
Louise Tuger	St. Louis
Barbara Tuger	St. Louis
Lilly Klenke	Wheeler
Linnie Udell	Alma
Eva Wolansky	Wheeler
Ethel Street	Wheeler
Alta Parr	Alma
Mrs. E. T. Lamb	Alma
Nellie Kirby	Alma
Clare Madden	St. Louis
Harold Wilson	St. Louis
Lois Heckerman	Alma
Thelma Keith	Alma
Helen McConkey	Alma
Frances Priest	Alma
Gretta Iutzi	Alma
Frank Notestein	Alma
Esther Rhodes	Alma
Susan Miller	Alma
Robert Baker	Alma
Kenneth Priest	Alma
Dorothy Jackson	Alma
Woodburn Lamb	Alma
Russell Johnson	Alma
Lucile Gardiner	Alma
Nina Crites	Alma
Helen Sharrar	Alma
Dean Wright	Alma
Pauline Salisberry	Alma
Kenneth Moore	Alma
Gerald Smith	Alma

Arlan Moore	Alma
Harold Davis	Alma
Louise Barstow	St. Louis
Robert Wilson	St. Louis
James Bernard	St. Louis
Frances Hubbard	St. Louis
Katherine Branch	St. Louis

EXTENSION WORK

COLLEGE SUBJECTS

Mildred Allen	Clinton
Ethel G. Carey	Clinton
William E. Doty	Belding
T. E. Johnson	Onaway
C. E. Milner	Onaway
Robert S. Thomas	Carney
David S. Yape	Sault Ste. Marie

VOICE

Aletha Baldwin	St. Louis
Maud Balch	St. Louis
Marie Behrens	Ithaca
George Buck	St. Louis
Alice Carpenter	Ithaca
Josephine Cornwell	Ashley
F. M. Dart	St. Louis
Ilah Ervey	St. Louis
Mrs. P. A. Gilleo	Ashley
Clella Godfrey	St. Louis
Paul Harrod	Ithaca
Muriel Kenyon	Ithaca
Mrs. O. A. Kester	St. Louis
Goldie Kille	Ithaca
Flossie Kleinhans	St. Louis
Beulah Lovejoy	Ithaca
Ross Miller	St. Louis
Mrs. William Peternell	Ashley
Ruth Ritter	Ithaca
Mrs. Hollie Rose	Ashley
Etta Rowe	Ithaca
Juanita Sebring	Bannister
Dorothy Thorold	St. Louis
W. A. Wood	St. Louis

PIANO

Elsie Barden	St. Louis
Flossie Beechler	Ithaca
Marie Behrens	Ithaca
Bernice Brooke	Ithaca
Bernice Bush	St. Louis
Bessie Coleman	Ithaca
Mrs. C. Daniels	Ithaca
Morrison Crawford	Ithaca
Lena B. Gallagher	Cass City
Theo. Goodwin	Ithaca
Vera Herron	Ithaca
Vera Henry	St. Louis
Irene McCall	Ithaca
Lucille McCormack	Ithaca
Iva Newark	Ithaca
Ethel Palmer	North Star
Edna Simcox	Ithaca
Lola V. Snook	Vestaburg
Lenna Thomas	Ithaca
Lota Thomas	Ithaca
Kathleen Watson	Ithaca
Joyce Wight	Ithaca
Marjorie Wight	Ithaca
Wilma M. Willoughby	Ithaca

VIOLIN

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Guy Turner ....Ashley
Lucile Weigman..........................Mt. Pleasant

SUMMARY

The College	146
The Summer Session, 1913	14
The Conservatory of Music	81
The College Extension Work	75
	316
Names counted twice	41
The total attendance for the year	275

LIST OF ALUMNI

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John Bartlett Stevens, Missionary.............Juneau, Alaska

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Item—I hereby give and devise to Alma College, situated in Alma, Gratiot County, Michigan, the sum of------------------dollars.

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Inquiries regarding entrance requirements and requests for statements of College credits, also credentials for entrance (blanks for which will be sent upon request) should be addressed to The Registrar, Alma College.

Inquiries regarding rooms, board, tuition, fees etc., should be addressed to The Secretary, Alma College.

Inquiries regarding scholarships and general information should be addressed to The President, Alma College, Alma, Mich.

Alma College Bulletin

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March, 1914

Published monthly by the College.
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July 16, 1894.

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1914-1915

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"Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

—Synod of Michigan, Grand Rapids, Oct. 14, 1886.

ALMA
COLLEGE

Catalogue
1914-1915

Announcements
1915-1916

ALMA, MICHIGAN

Calendar

	1915		
March	26	Friday	Second Term ends, 12 noon.
April	6	Tuesday	Third Term begins, 8 A. M.
May	31	Monday	Final Examinations begin.
June	6	Sunday	Farewell Communion, 10 A. M.
			Address before Christian Ass'ns, 3 P. M.
			Baccalaureate Address, 7:30 P. M.
June	7	Monday	Class Day.
			Class Day Exercises, 8 P. M.
June	8	Tuesday	Annual Concert, 8 P. M.
June	9	Wednesday	Alumni Day.
			Meeting of Alumni Association, 1 P. M.
			Senior Promenade, 8 P. M.
			President's Reception, 9 to 11 P. M.
June	10	Thursday	Commencement Exercises, 10 A. M.
			Commencement Luncheon, 1 P. M.

SUMMER VACATION

June	21	Monday	Summer Session begins.
July	30	Friday	Summer Session ends.
June	29-July 9		Graduate School for Ministers. Held at East Lansing in co-operation with State Agricultural College.
July	19-25		Training School for Christian Workers.
Sept.	20	Monday	Matriculation for Freshmen.
Sept.	21	Tuesday	Matriculation for other Students.
Sept.	22	Wednesday	First Term begins, 9 A. M.
			Opening Address.
Oct.	14	Thursday	Founders' Day.
Nov.	24	Wednesday	Thanksgiving Recess begins, 4 P. M.
Nov.	30	Monday	Thanksgiving Recess ends, 1:15 P. M.
Dec.	22	Wednesday	First Term ends, 12 noon.

WINTER VACATION

	1916		
Jan.	4	Tuesday	Second Term begins, 8 A. M.
Jan.	18	Tuesday	Mid-year Meeting of Board of Trustees.
Jan.	24	Monday	Semi-annual Examinations begin.
Jan.	28	Friday	First Semester ends.
Jan.	29	Saturday	Schedule of Upper Classes.
Jan.	31	Monday	Second Semester begins
Feb.	3	Thursday	Day of Prayer for Colleges.
March	24	Friday	Second Term ends, 12 noon.

SPRING VACATION

April	4	Tuesday	Third Term begins, 8 A. M.
June	14	Wednesday	Commencement.

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1914-15

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Ewing, Notestein, Miss Waite, Miss Cook.

MUSEUM AND APPARATUS.
West, MacCurdy, Zimmerman.

PIONEER HALL.
Mitchell, Cook, Bleamaster.

PUBLICATIONS.
Blaisdell, Ewing, Cook, Mitchell.

RELIGIOUS EXERCISES.
Blaisdell, Randels, Notestein, Ritchie.

TEACHERS.
Blaisdell, Mitchell, Ewing.

THE PRESIDENT'S COUNCIL

The Dean of the Faculty, the Dean of Women, the Dean of the Summer Session, the Registrar, the Secretary of the Faculty, the Secretary of the College, the Director of the Conservatory of Music.

OFFICERS OF ADMINISTRATION

THOMAS C. BLAISDELL, PH. D. . . . . President
801 West Superior Street.

JAMES E. MITCHELL, A. M. . . . . Dean
412 Maple Avenue.

CAMELIA WAITE, A. M. . . . . Dean of Women
Wright Hall.

GEORGE B. RANDELS, PH. D., Dean of Summer Session
301 Grant Avenue.

ALBERT P. COOK, A. M. . . . . Sec'y and Ass't Treasurer
611 West Center Street.

JOHN T. EWING, A. M., LITT. D. . . . . Registrar
315 Grant Avenue.

HELEN B. COOK, A. B. . . . . Librarian
611 West Center Street.

MISS T. ALBERTSON . . . . Matron of Wright Hall
Wright Hall.

MARCIA A. CARL . . . . Clerk to the President
Wright Hall.

WILHELMINE A. RITTER, Clerk to Sec'y and Registrar
Wright Hall.

ALMA COLLEGE

LOCATION

The city of Alma, in which Alma College is located, is in Gratiot County, in almost exactly the geographical center of the lower peninsula of Michigan. It is on the Pere Marquette Railway between Grand Rapids and Saginaw, being about eighty miles from the former city and forty from the latter. It is also on the Ann Arbor Railroad, 145 miles from Toledo and eighty miles from Cadillac. *Alma has no saloons,* Gratiot County having been "dry" since May, 1907.

With paved and well-shaded streets, boulevard lighting, a complete sewer system, city water, electric lights, an exceptionally efficient public school system with a new high school building costing $65,000, and with numerous churches, this city of about 4,400 people has proved itself to be an unusually healthful and morally uplifting community to which parents may safely entrust their children or to which they may move for the purpose of educating their children.

HISTORY

On a Sunday evening, in 1886, the Rev. J. Ambrose Wight preached a sermon from his pulpit in the First Presbyterian Church of Bay City, in which he emphasized the need of a Christian college in central Michigan. At the close of the service, Mr. Alexander Folsom said to Dr. Wight that he was ready to give $50,000 toward the founding of such a college. On September 28, 1886, the committee of the Synod met in Alma and received the formal offer of this gift. At the same time Mr. A. W. Wright offered, for the town, a campus on which two buildings for educational purposes had already been erected and furnished, the whole valued at $40,000. Other friends offered to provide for professorships for five years, to add to the endowment, to give toward current expenses, and to provide a library.

The committee made its report to the Synod in the Westminster Presbyterian Church at Grand Rapids on October 14, 1886, with the result that the Synod "Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

The doors of Alma College were opened to students on September 12, 1887. Thirty-four young men and young women registered the first day. The total attendance during the year was ninety-five.

The first president of Alma College was the Rev. George F. Hunting, D. D., who served until April 20, 1891. On June 16, 1891, his successor, the Rev. August F. Bruske, was inaugurated and served in the office until July, 1912. President Bruske signed the diplomas of the members of the first class, which was graduated in 1891, and of every succeeding class to the time of his retirement.

In the summer of 1888 a heating plant was erected; in 1889 a library building was completed; in 1895 the gymnasium was completed; the Hood Museum was dedicated in June, 1900. Wright Hall was completed and opened its doors as the home for young women in 1902. The Davis Athletic Field was graded and enclosed in 1902, while its beautiful entrance gate was erected in 1912.

Alma College has a campus of thirty-six acres. This, with the buildings, is valued at $175,000. The college has an endowment of about $400,000.

The material progress of Alma has been made posible by a host of friends, foremost among whom will lways be mentioned Mr. Ammi W. Wright. His total ifts in additions to the endowment, in Wright Hall, n library funds, and in the payment of current exenses aggregate about $400,000. The passing of Mr. Vright on May 5, 1912, was mourned by every friend f the College, and particularly by the thousands of oung people who have been blessed in their educaional privileges by his liberality.

RECENT IMPROVEMENTS

The beautifying of the campus, begun several years go, has been continued during the past year, about ,500 trees, mostly hardwood, having been planted, beides many shrubs. Mrs. Francis King has continued er generosity by furnishing two hundred peony roots, vhich have been placed at various advantageous oints. The rise of ground behind the gymnasium, for ears an eyesore, has been graded and seeded. A cinler walk was laid from Wright Hall to the Library nd to the Museum. Part of it has been covered with oncrete by the Class of 1914, as a class memorial. It s to be hoped that some friend of the college will oon provide funds for completing this walk in conrete. The generosity of Mrs. Sarah H. Lancashire as provided the latest type of metal weather striping for all windows in Wright Hall and has installed complete system of call bells and house telephones n that building.

ADMISSION

Each applicant for admission must satisfy the colege officials that he is of good moral character. If oming from another college, he must bring a letter f honorable dismissal.

Admission is gained by (1) certificate, or (2) examination.

1. Recommended graduates of accredited high schools are admitted unconditionally if they present at least three units in English and Literature, two units in a foreign language, one unit in Algebra, one in Geometry, and one in science. The remainder of the fifteen required units may include any of the subjects customarily offered in accredited high schools, except that not over three units of vocational work will be accepted. A unit means five recitations each week for a school year, totaling not less than one hundred twenty, sixty-minute periods in the clear. Laboratory, drawing, or shop periods not less than two hours in length are counted as equivalent to one recitation period.

Graduates of accredited high schools who are unable to present, in full, the required units listed above, may be admitted *conditionally*. However, such students will not be recommended to other colleges and will not be graduated until such additional work is completed as may be necessary to fulfil the entrance requirements.

2. Examinations are held at the opening of each college year for applicants who have completed an amount of work equivalent to fifteen units, but who are not graduates of accredited high schools. The next examination will begin Monday, September 13, 1915.

All applicants for admission are *urged* to present at least two units in Latin.

Students of mature years, whose preparation is irregular, are permitted to enter classes for which they are prepared. They enter as special students, and are not regarded as candidates for a degree.

Graduates of accredited high schools who expect to enter Alma should secure from the College an application blank. This should be filled out by the principal and forwarded *by him* to the registrar of the College. If accepted, the applicant will receive a statement from the College entitling him to admission.

ADVANCED STANDING

A student bringing from an approved college a statement showing that he has completed a regular course of at least one year, will be admitted to equal standing in this College. Graduates of approved normal schools will be given full credit for completed work, provided they bring a duly certified statement of the subjects pursued.

No advanced credit is allowed for subjects studied in high school unless at least one semester of post-graduate high school work has been done.

Advanced standing in single subjects may be obtained by examination, which may be arranged for with the head of the department concerned.

REQUIREMENTS FOR GRADUATION

The standard unit of credit used in estimating college work is one recitation period a week for one semester, or one "semester-hour." In laboratory courses a two-hour period is considered equal to a one-hour recitation period. One hundred and twenty hours and two hours in Physical Training are required for graduation, making the average requirements per semester fifteen recitation periods a week. The recitation period is fifty-five minutes in length.

The subjects comprised in the college course of instruction are arranged in groups, each of which contains (a) certain subjects required of all students; (b) two major subjects; (c) general electives, the choice of which is unrestricted.

(a) The required subjects are: English, six hours; History, six hours; Science, six to eight hours; Philosophy, six hours; Biblical Literature, eight hours; Physical Training, two hours; Foreign Language, twelve to sixteen hours.

(b) In order to provide for intensive work the student is required by May first of his Sophomore year to choose a group of two major subjects in which, with certain prerequisite courses, he must secure a credit of forty hours. For the list of groups offered in 1915-16 see below.

(c) The remainder of the one hundred and twenty-two hours may be elected from any of the following departments of instruction of the College, due regard being paid to the limitations imposed by the program of recitations:

Astronomy
Biology
Chemistry
English
French
Geology
German
Greek
History
Latin
Mathematics
Music
Oratory
Pedagogy
Philosophy
Physics
Political Economy

The groups from which major subjects for 1915-1916 may be chosen are:

I. Greek-Latin.
II. History-Political Science
III. English-A Modern Language.
IV. English-Latin.
V. Philosophy-A Modern Language.
VI. Latin-German.
VII. Mathematics-A Laboratory Science.
VIII. Chemistry-Biology.

Other groups may be arranged, dependent upon the possibilities of the program.

FRESHMAN YEAR

Required Subjects:

1. College Life, one hour, first semester.
   Bible 1, two hours, second semester.
2. English, three hours, each semester.
3. A foreign language (usually the one offered for entrance), four hours, each semester.

Optional Subjects:

1. Mathematics or science, four hours, each semester.
2. A second language, mathematics, science, or history, three or four hours, each semester.

SOPHOMORE YEAR

Required Subjects:

1. Bible 2, two hours, first semester.
2. A second year in each foreign language taken in Freshman year, four hours, each semester.

Elective Subjects:

Nine hours in mathematics, history, science, or English, choice to be made from at least two subjects.

JUNIOR AND SENIOR YEARS

In the work of these years must be included two courses in Bible, two courses in philosophy, and the work in two majors, covering from twelve to fourteen hours each. The remainder of the sixty hours may be taken in general electives.

PREPARATION FOR PROFESSIONAL COURSES

Through the group system Alma College makes provision for a liberal education, as well as special preparation for students who have in mind future professional or technical courses. Professional study is largely a matter of memory unless the student has a knowledge of those subjects which underlie and give meaning to it.

The Ministry. The student who expects to pursue advanced studies in a divinity school, should major in the Greek-Latin group, with electives in philosophy, science, and sociology. Other electives to be considered are history, literature, and public speaking. The minister familiar with the details of athletic training has a distinct advantage in dealing with boys and young men.

Law. The best professional schools make a college course a prerequisite for entrance, and all good ones require at least two years of college preparation. The student who expects to enter upon the study of law should do his major work in the History-Political Science group, with electives in philosophy, mathematics, public speaking, and sociology.

Medicine. The Chemistry-Biology group offers lines of major and elective work which are especially useful in preparation for the study of medicine. These departments are well equipped with facilities for laboratory work under competent instruction, and offer a wide range of courses to pre-medical students.

A special course of one year covering Biology, Chemistry, Physics, and A Modern Language, has been arranged for the benefit of students going to a medical college requiring only one year of college work for admission.

Engineering. Students expecting to enter engineering schools should do major work in the Mathematics-Laboratory Science group. This offers a number of courses in the mathematics, sciences, and modern languages which form a fundamental part of all engineering courses. A special course covering the first two years of engineering work has been developed.

Teaching. The College makes special provision for the needs of prospective teachers: (a) in its pedagogical courses, (b) in its special courses in the methods of teaching specific subjects, (c) in observation work and practice teaching, and (d) in its offer of a state teacher's certificate to those who meet the requirements of the pedagogical course. The student who expects to teach a particular subject, should choose it as one of his majors.

Courses of Instruction

ASTRONOMY

DR. NOTESTEIN

The aim of this course is to give the student a general knowledge of descriptive astronomy. The instruction is based upon the use of a text-book, supplemented by lectures and the use of a telescope. Some time is given to the study of the heavens to enable the student to become acquainted with the names and positions of the principal stars and constellations. Three hours throughout the year.

BIOLOGY

DR. MACCURDY

1 and 2. *General Biology.* The work in general biology is designed to give the student a knowledge of the general principles of biology developed from the study of typical forms of plants and animals. It also lays the foundation for more advanced work and helps to a better understanding of life phenomena and the literature which deals with biological subjects. In addition to the general principles, emphasis is laid on the methods of observation and the interpretation of biological phenomena. The course is open to all College students. Two laboratory periods and two recitations throughout the year.

3. *Morphology and General Physiology of Plants.* This course includes a study of plant forms and their development, the development and relationships of the different members of the plant body, plant cells and

cell structures, plant tissues and their development and functions. Emphasis is laid on the interrelations of structure and function. Such texts as Strasburger, Coulter and Barnes, Vines, Stevens, Zimmerman's Microtechnique, and others are useful in this course. Two laboratory periods and two recitations, first semester. 1915-1916.

4. *Ecological Botany.* The work in this course depends upon the satisfactory completion of Course 3. It includes the study of the biological relations of plants, their adaptations and the chief factors determining plant distribution and associations. Warming's Plant Ecology, Clement's Research Methods, and Cowles and such reading as is available form the basis of the course. Two recitations and three hours' laboratory or field work, second semester. 1915-1916.

5. *Field Zoology.* An introduction to the life relations of the more common forms, their habits, the identification and classification of important groups. Typical habitats and the forms inhabiting them are studied. The economic importance of certain groups such as insects and birds is of vital interest, and these claim particular attention. The class is limited in number and none should enter without permission from the instructor. Three hours, second semester.

6. *Comparative Anatomy of the Vertebrates.* Lectures and recitations on the comparative anatomy and general physiology of vertebrates. The laboratory work is on vertebrate types, which are studied with special reference to human anatomy and physiology. The course is of value to those preparing to teach and of special interest to those preparing for the study of medicine, as well as of general interest to others. Such books as Wiedersheim's Comparative Anatomy, Parker and Haswell's text-book of Zoology, vol. II, Jennings and Reighard's The Cat, are useful references. Two laboratory periods and two recitations, first semester. 1915-1916.

7. *Physiology and Histology.* This is supplementary to the work in the study of anatomy of the vertebrates, and is designed to include the general physiological processes, with emphasis on those of the most practical nature. A suitable text with reference work and laboratory practice makes up the course. The references include standard and recent texts on physiology, and in the laboratory standard methods of general histology are used. Four hours, second semester. 1916-1917.

8. *Bacteriology.* This is an introductory course dealing with the biology of bacteria and other microorganisms. The importance of a knowledge of these forms is recognized in many branches of science and daily life. The common methods used in the study of bacteria are employed in the laboratory in the study of the bacteria of the household, foods, air and water. Emphasis is placed on the general physiological relations of bacteria, their distribution and relations to diseases. Buchanan's Household Bacteriology, or Frost and MacCampbell's General Bacteriology is the text, with a laboratory guide. Four hours, second semester. 1916-1917.

9. *Embryology.* A study of the segmentation and development of the germ layers and early development of the principal structures of the vertebrate body. This is fundamental to a clear conception of many problems in biology. Two recitation and two laboratory periods, second semester. 1915-1916.

10. *Heredity and Eugenics.* Since the discovery of the Mendelian law great advances have been made in a knowledge of heredity. Both science and education have gained by this, in the application of a knowledge of these laws to biological, sociological, and educational problems. This course takes up the study of the method and laws of heredity, unit characters, pure lines, elimination of undesirable traits, and the development of new and desirable traits, and the applica-

tion of the principles of heredity to economic and sociological problems. Three hours, second semester.

Courses 1 and 2 are fundamental and they or their equivalent should be taken as a year's work in general biology.

While freedom of electives beyond this is permitted, students should consult the instructor before enrolling.

The courses are planned to meet the needs of four groups of students:

I. Students wanting the humanistic and cultural value of a knowledge of biology; courses 1, 2, 5, 10, and 3 and 6 elective;

II. Those who expect to teach; courses 1, 2, 3, 5, 6, and 10;

III. Students preparing for the study of medicine; 1, 2, 6, 7, and 8, 9, 10 elective;

IV. Those looking toward work in science as a profession; courses as for II and III.

CHEMISTRY

Professor West

1. *General Inorganic Chemistry.* A beginning course open to all students of the college. Lectures based upon some good reference text as an outline. This course must be supplemented by either Course 1 (a) or Course 1 (b). Two hours, second semester.

1(a). *General Inorganic Chemistry.* Laboratory Course. This course consists of a series of experiments with the common elements and compounds. All students who have had no laboratory work in chemistry must take this course with Course 1. Four hours, second semester.

1(b). *Household Chemistry.* Laboratory Course. The prominent place that women have come to occupy in the social and economic life of the country has made it seem wise to give the college woman an opportunity to know something of the principles underlying such problems as ventilation, sanitation, dietary standards, pure foods, adulteration of fabrics, waste materials, etc. Experiments will be made in testing foods for impurities, testing drinking water, identifying natural and artificial silks, also woolen and cotton goods. Methods for removing stains, and tests for different grades of baking-powders, etc. Open to all women of the college who have had Course 1 and required of all Freshmen in the Kindergarten Training School. Four hours, second semester.

Women who have completed Course I and I(b) may substitute the work for Course 3 and continue their work in chemistry by electing courses 4, 5, and 7. These courses form a good foundation for work in Home Economics, for the teaching of science, and in giving one a better idea of life phenomena.

2. *Advanced Inorganic Chemistry*· A discussion of some of the more advanced problems and theories together with suitable laboratory experiments. Open to all students who have had Course 1 or its equivalent. Two recitations and four hours' laboratory work, first semester.

3. *Qualitative Analysis.* This course deals with the separation and identification of the constituents of chemical compounds and mixtures by both the wet and the dry methods. Reference texts, Morgan's Qualitative Analysis and West's Laboratory Outlines. Open to all students who have had Course 1 or its equivalent. Two recitations and four hours' laboratory work, second semester.

4. *Quantitative Analysis.* Quantitative determinations are made to find the per cent of elements and

compounds present in commercial products, ores, minerals, etc., by both gravimetric and volumetric methods. The making of solutions of known value and the calibrating of apparatus. Open to all students who have had Courses 1 to 3, inclusive. One recitation and six hours' laboratory work, first semester.

5. *Organic Chemistry, Aliphatic Compounds.* A study of the text, lectures, and laboratory work in making synthetic preparations such as ethers, chloroform, ethyl bromide, acetal chloride, methyl amine, etc. Text: Perkin and Kipping's Organic Chemistry and Cohen's Practical Organic Chemistry, with laboratory outlines. Open to students who have had Courses 1 to 3, inclusive. Two recitations and four hours' laboratory work, first semester.

6. *Organic Chemistry, Aromatic Compounds.* A continuation of Course 5. Laboratory work in preparing such aromatic compounds as nitrobenzene, phenyl bromide, sulphanilic acid, aniline, malachite green, and experiments with certain carbohydrates. Text, same as in previous course. Open to students who have had Courses 1 to 3, inclusive. Two recitations and four hours' laboratory work, second semester.

7. *Chemistry of Sanitation.* A course dealing with the practical problems in chemistry that may be found in every community such as the purity of drinking water, the smoke nuisance, adulterated foods, sewage, ventilation of public buildings, prevention of fires, use of explosives, etc. The above or similar topics will form the basis of a thesis to be prepared by the student. The course will call for considerable outside reading. Open only to those who have had Courses 1 to 6, inclusive. One recitation and four hours' laboratory work. First semester. 1916-1917.

Courses 1, 2, and 5, 6 are year courses and no credit is given unless the full year's work is completed.

ECONOMICS AND SOCIAL SCIENCE

Professor Mitchell

1. *Principles of Economics.* This course is designed to cover the more important portions of the general field of economics. The student is expected to assimilate the general principles of the subject and to be able to apply them to the discussion of practical questions. An excellent library of economics, containing the important treatises in English on the subject, is at hand, and students are required to use it freely. Three hours, throughout the year.

2. *Money and Banking.* A discussion of the theory and history of money and banking with special reference to the United States. The gold standard; bimetallism; fiat money; our present currency, with proposed changes; functions of a bank; first United States Bank; second United States Bank; our present national banking system, including our new banking and currency act; a comparison of foreign banking systems with our own, especially those of England, France, Germany, Scotland, and Canada. Three hours, second semester. 1915-1916. Prerequisite, Course 1.

3. *Principles of Taxation.* The historical development of taxation; a study of the different kinds of taxes, as the general property tax, the single tax, inheritance tax, income tax; taxation of corporations; double taxation, together with recent reforms in taxation. Three hours, first semester. 1916-1917. Prerequisite, Course 1.

4. *Corporations.* A study of modern industrial combinations, their history in the United States from the pool to the trust and holding company. Attempts at control through the application of the Sherman anti-trust act and their results, together with proposed new legislation, will form a part of the course. Three hours, second semester. 1916-1917. Prerequisite, Course 1.

5. *Principles of Sociology.* An advanced general course. It includes an analysis and classification of social facts; discussion of the principles of social theory and the process of socialization; study of social feeling, public opinion and organized action; an inquiry into the causes of emotional epidemics, panics, mob violence, revolutions; an explanation of the growth of public opinion on great questions; an attempt to show from history and current events that public action is governed by definite laws of social change. Three hours, second semester. 1915-1916.

ENGLISH

English Language and Literature

DR. BLAISDELL, MISS WAITE, AND PROF. RITCHIE

1a and 1b. *Theme Writing.* The aim of this course is to develop the power of clear and effective expression through the composition of themes, both oral and written, and through an intensive study of selections from the works of excellent writers. Some time is given to the content and forms of business and social correspondence. Some time is given to a study of the short story. Required of Freshmen. Three hours throughout the year.

The following courses are elective:

2. *English Literature Before Shakespeare.* Special attention to Beowulf and the works of Chaucer and Spenser. Two hours, first semester. 1915-1916.

3. *Shakespeare.* The reading of perhaps twenty plays. Three hours, second semester. 1915-1916.

4. *Elizabethan Literature.* A study of the leading writers, other than Spenser and Shakespeare, of the Elizabethan Age. Two hours, second semester. 1916-1917.

5. *Milton.* Two hours, first semester. 1916-1917

6. *Famous Biography.* A study of several of th greatest biographers in the language and of a larg number of volumes of current biography and of brie magazine biographies. The course aims to interes young people in the reading of biography. Two hours first semester. 1915-1916.

7. *Eighteenth Century Literature.* This course includes the beginnings of the English novel. Tw hours, second semester. 1916-1917.

8. *Nineteenth Century Poetry.* A study of th chief poets, except Tennyson and Browning. Thre hours, first semester. 1916-1917.

9. *Nineteenth Century Prose.* A study of severa of the prose writers who made this century famous The development of the novel during this century wil be considered in this course. Two hours, secon semester. 1915-1916.

10. *Tennyson.* Three hours, second semester 1916-1917.

11. *Browning.* Three hours, first semester. 1915-1916.

12. *American Classics.* A study of the style an the literary value of a number of famous America poems, essays, novels, etc. Two hours, second semester. 1915-1916.

13. *Contemporary Drama.* A study of twenty o thirty dramas written during recent years. Those from foreign languages will be read in translation. Two hours, first semester. 1916-1917.

ENGLISH SPEECH

Professor Ritchie

1. *Expression.* Three hours, first semester. Relation of the speech arts to other forms of expression, pantomime and speech as arising from thinking and

feeling; differentiation of compositional and interpretational expression. This course is prerequisite to all the other courses in the department.

2. *Parliamentary Law and Extempore Speaking.* Two hours, first semester. Development of power and skill in extemporaneous speech in connection with the practice of parliamentary law. Each member of the class has drill in presiding over the class assembly. Lectures are given on the principles involved.

3. *Interpretive Reading.* Three hours, second semester. A consideration of the forms of literature, followed by character studies and impersonations. It is advisable that English 8 be taken in preparation for this course.

4. *Public Speech.* Two hours, second semester. This is a general utility course and is designed to deal with forms of public speech expected of those who mingle in public affairs. Simplicity and succinctness are the keynotes.

5. *Argumentation.* Three hours, first semester. Consideration is given to the principles of argument, evidence, proof, and brief-drawing.

6. *Debating.* Two hours, second semester. In part, this course reviews principles studied in Course 5, but it is advised that either Course 5 be taken previously or the text assignments therefor be read in onnection with the work of this course. The greater part of the work in this course will consist of the prac-ical discussion of problems of the day. Team debates will be scheduled.

FRENCH

Miss Riker

1. *Elementary French.* Grammar and easy reading, with practice in speaking and writing. Four hours, first semester.

2. *Elementary French.* Continuation of Course 1 For those who have had Course 1, or one year in the high school. Four hours, second semester.

3. *Intermediate French.* Easy prose and plays with practice in speaking and writing. Grammar review. Four hours, first semester.

4. *Intermediate French.* Continuation of Course 3 Four hours, second semester.

5. *French Composition.* Open to students who have completed Courses 1, 2, 3, 4. Two hours throughout the year.

6. *General Course in French Literature.* History of literature will be used as text and selections from authors will be read in class. Two hours throughout the year.

7. *French Drama of the Seventeenth Century* Corneille, Racine, Moliere. Three hours throughout the year.

8. *French Prose of the Nineteenth Century.* The works of such authors as Daudet, Zola, Bourget will be studied. 1915-1916. Three hours throughout the year.

9. *Literature of the Nineteenth Century.* Special study of Romanticism and Naturalism. Three hours throughout the year. 1916-1917.

GERMAN

PROFESSOR WILDERMUTH

1. *Elementary German.* Pronunciation, grammar, selections in prose and verse, practice in speaking and writing German. Four hours, first semester.

2. *Elementary German.* Continuation of Course 1. Four hours, second semester. Prerequisite, Course 1, or one entrance unit.

3. *Intermediate German.* Selections in easy prose with composition and conversation based on topics drawn from the text. Reviews in grammar. Four hours, first semester. Prerequisite, Courses 1 and 2, or two entrance units.

4. *Intermediate German.* Continuation of Course 3. Four hours, second semester. Prerequisite, Course 3, or three entrance units.

5. *German Composition.* Open to students who have completed Courses 1, 2, 3 and 4. Two hours throughout the year. 1915-1916.

6. Two courses are given in alternate years:

(a) *Modern Prose Writers*: Storm, Freytag, Ernst, Hoffman, etc. Three hours throughout the year. Prerequisite, Course 4, or four entrance units. 1915-1916.

(b) Lessing's Minna von Barnhelm, Schiller's Wilhelm Tell and Maria Stuart, Goethe's Goetz von Berlichingen. Three hours throughout the year. Prerequisite, Course 4, or four entrance units. 1916-1917.

If one of these courses is taken after having taken the other, only two credits are given for it.

Advanced Courses. The consent of the instructor is necessary for the election of subjects in this group.

7a. *Lessing's Life and Works*: Miss Sara Sampson, Emilia Galotti, Nathan der Weise, Hamburgische Dramaturgie, Laokoon. Special attention will be given to the Age of Frederick the Great. Three hours throughout the year. Prerequisite, Courses 6a or b. 1916-1917.

7b. *Schiller's Life and Works*: Fiesco, Die Jungfrau von Orleans, Essays, Die Braut von Messina, Wallenstein. Special attention will be given to the Thirty Years' War. Three hours throughout the year. Prerequisite, Course 6a or 6b. 1915-1916.

7c. *Goethe's Life and Works*: Dichtung und Wahrheit, Werther, Egmont, Iphigenie, Tasso, Hermann und Dorothea. Special attention will be given to the Period of Revolution. Three hours throughout the year. Prerequisite, Course 6a or 6b. 1916-1917.

8. *Faust.* Two hours throughout the year. 1916-1917. Prerequisite, Course 6a or 6b.

9. *History of German Literature.* Two hours throughout the year. Prerequisite, Course 4. 1915-1916.

10. *Teacher's Course.* A systematic study of grammar and the reading materials now used in the high schools; lectures and discussions on the methods of teaching German. Students will be required to conduct classes in elementary German during the second semester. Two hours first semester. Open to Juniors and Seniors. 1916-1917.

11. Two courses are offered in alternate years. They present an outline of German life in the nineteenth century as reflected in the drama, the novel, and the short story.

(a) *Modern German Drama.* Selected dramas of H. von Kleist, Grillparzer, Hebbel, Anzengruber, Sudermann, Hauptmann, and others. Two hours throughout the year. Prerequisite, Course 6a or 6b. 1916-1917.

(b) *German Novel and Short Story.* Selected works of Hoffman, Ludwig, Grillparzer, Spielhagen, Storm, Fontane, Wildenbruch, Frenssen, and others. Two hours throughout the year. Prerequisite, Course 6a or 6b. 1915-1916.

Students preparing to teach German are strongly advised to take Courses 5, 9 and 10.

A major in German must include one course under 6, one course under 7, and Course 9.

GREEK

DR. EWING

1. *Elementary Greek.* White's First Greek Book. Five hours, first semester.

2. *Xenophon's Anabasis.* Prose composition. Five hours, second semester.

3. *Colson's Reader.* Selections from Herodotus; Greek literature; prose composition. Four hours, first semester. Prerequisite, Course 2.

4. *Homer.* Book I of the Iliad translated and the forms and metrical peculiarities carefully studied; rapid reading of the most interesting portions of the text with frequent practice in sight translation; topical study of the Homeric Age; Greek literature. Four hours, second semester. Prerequisite, Course 3.

ELECTIVE COURSES

5. *Lyric Poetry.* A study of the various forms of the lyric as a connecting link between the epic and the drama. Four hours, first semester. Prerequisite, Courses 3 and 4. 1915-1916.

6. *Dramatic Poetry.* The reading of selected plays; lectures on the origin and development of the drama; Greek literature. Four hours, second semester. Prerequisite, Course 5. 1915-1916.

7. *Herodotus, Thucydides, Xenophon.* Notes on Greek constitutional development, illustrated by copious readings. Four hours, first semester. Prerequisite, Courses 3 and 4.

8. *Lysias, Demosthenes.* A study of the history and influence of Greek oratory. Four hours, second semester. Prerequisite, Courses 3 and 4. Courses 7 and 8 alternate with Courses 5 and 6.

9. *Plato; Xenophon.* Selections from Plato's Apology, Crito, and Phaedo, and the Memorabilia of

Xenophon; outlines of Greek philosophy. Three hours, first semester.

10. *Theocritus; Lucian.* Studies in the later literature. Three hours, second semester.

11. *Greek Life and Art.* A study of the civilization of the Greeks and its influence upon later peoples and times, by means of lectures and supplementary readings, and illustrated by the use of the lantern. A knowledge of Greek is not necessary for this course. Three hours, second semester.

12. *Greek Literature in English.* A reading of Greek masterpieces in translation supplemented by lectures on the development of literary form among the Greeks. This course alternates with Course 11. Three hours, second semester. 1915-1916.

13. *The Greek in English.* A brief course in the elements of the language primarily for the benefit of scientific students in acquiring a better knowledge of the terminology of science. Three hours, first semester.

14. *New Testament Greek.* A careful study of Hellenistic Greek based upon the Gospel of Luke. This course alternates with Course 13. Three hours, first semester. 1915-1916.

The major in Greek must include, in addition to Courses 3 and 4, twelve hours to be selected from Courses 5-10 and 14.

HISTORY AND POLITICAL SCIENCE

PROFESSOR MITCHELL

1. *European History.* From the Fall of the Roman Empire in the West to the Peace of Westphalia, 1648. Three hours, first semester.

2. *European History.* From the Peace of West-

phalia to the present time. Three hours, second semester.

3. *The History of Europe Since 1870.* Open to those who have taken Courses 1 and 2. Three hours, throughout the year. 1916-1917.

4. *History of England.* Political and Constitutional. Three hours throughout the year. 1915-1916.

5. *History of the United States.* Colonial and Revolutionary Periods, 1492-1789. Three hours, first semester. 1915-1916. Prerequisite, Courses 1 and 2.

6. *History of the United States.* National Development and the Slavery Question, 1789-1861. Three hours, second semester. 1915-1916.

7. *History of the United States.* The Civil War and Reconstruction, 1861-1876. Three hours, first semester. 1916-1917. Prerequisite, Courses 5 and 6.

8. *Greek History.* From the earliest times to the death of Alexander. Three hours, first semester, 1915-1916.

9. *Roman History.* From the earliest times to the barbarian invasions. Three hours, second semester, 1915-1916.

10. *The State.* A discussion of the origin, forms, and ends of the state, together with a history of the formation of the Constitutions of England, France, Germany, and the United States. Three hours, first semester. 1915-1916. Prerequisite, Courses 1 and 2.

11. *Political Philosophy.* A history of political theories from Plato to Luther. Open to those who have taken Courses 1 and 2 in History. Three hours, first semester. 1916-1917.

12. *Political Philosophy.* A history of political theories from Luther to Montesquieu. Open to those who have taken Course 11. Three hours, second semester. 1916-1917.

13. *American Government.* An analysis of the nature, structure, and working of the Federal Govern-

ment and a comparison with the English system. Three hours, second semester. 1915-1916.

14. *European Governments.* A study of the governments of England, France, Germany, and Italy. Three hours throughout the year. 1915-1916.

KINDERGARTEN TRAINING

MISS ROBINSON AND MISS CONYNE

1. *Kindergarten Theory 1.* This course covers a study of the theory of (a) Plays and games, (b) Child study, (c) Story work, (d) Hygiene. Three hours throughout the Freshman year.

2. *Kindergarten Theory 2.* A study of principles as related to the building and carrying out of the kindergarten program is taken up in this course. Also a study of stories and the sources of children's literature. In the latter work, students have practical experience in story telling to children and adults. Prerequisite, Kindergarten Theory 1. Two hours throughout the Freshman year.

3. *Gift Work 1.* The Froebellian gifts are studied with special emphasis on the practical work with the children. Students prepare and present gift plays to the class, which involves criticism and discussion. The first four gifts are covered in the course and it is done in the first year. Two hours throughout the Freshman year.

4. *Gift Work 2.* This course is a continuation of Gift Work 1, completing the study of the gifts, and emphasizing the theoretical as well as the practical side of the work. Two hours, first semester, Sophomore year.

5. *Occupation Work 1.* This work covers the traditional Froebellian occupations of sewing, weaving,

cutting and folding, clay and color work. Two hours throughout the Freshman year.

6. *Occupation Work 2.* This work covers those phases of handwork known as construction work, raffia and reeds, also the application and use of various other outside materials. Prerequisite, Occupation Work 1. One hour throughout Sophomore year.

7. *Ethics 1.* Everyday Ethics by Cabot is used as a basis for the discussion of questions of ethics as related to everyday living. One hour throughout the Freshman year.

8. *Ethics 2, or Mother Play.* This course consists of a study of the most typical of the Froebellian mother plays and the ethical as well as educational principles involved. One hour throughout the Sophomore year.

9. *History of Education.* See Courses 9 and 10 in Philosophy, page 43.

10. *Child Study.* This course presupposes a year and a half in the department and Psychology 1. Fundamentals of Child Study by Kirkpatrick is used as the text. Two hours, second semester, Sophomore year.

11. *Songs and Games.* A course in the development of games and in actual participation in them. Kindergarten songs are studied from the point of view of content, musical construction, and suitability for children. One hour throughout the Freshman and Sophomore years.

12. *Teaching.* The work in Teaching consists of practical experience in the College Kindergarten, supplemented by work in the kindergarten and the first three primary grades of the local public schools. Teachers' meetings, with discussions of the problems involved, are part of this work. Six hours throughout the year.

On the completion of the above courses and the required college work, consisting of two semesters of English, two of Biology, one of Household Chemistry, two of Bible, and two of college electives (6 hours), the student is granted a state life kindergarten certificate.

Students desiring further study may continue, with the emphasis laid upon the department work, for one more year, at the end of which a certificate will be given.

The following courses are for third-year students:

13. *Froebel's Education of Man.* One hour throughout the year.

14. *Froebel's Mother Play* and *Henderson's Children of Good Fortune.* One hour throughout the year.

15. *Pedagogy.* Advanced story work with the emphasis on analysis and story-telling. Dewey's Pedagogical Creed and Interest as Related to Will are the lines of this work. One hour throughout the year.

16. *School Management.* Two hours throughout the year.

17. *Theory and Practice.* This work involves more advanced program work and the management of the entire kindergarten. Five hours throughout the year.

Upon the completion of a fourth year, made up of work in majors and advanced college electives, the degree of A. B. will be conferred.

LATIN

DR. EWING, ASSISTANT PROFESSOR COOK

1. *Elementary Course.* (a) Lessons; (b) Cæsar. Course 1 covers the work of the two units of foreign language required for entrance to college or to the law or medical school. Five hours throughout the year.

2. *Intermediate Course.* (a) Cicero; (b) Vergil. Course 2 is offered to those who have had two or three years of Latin and wish to prepare themselves to enter Course 3 in one year. Five hours throughout the year.

3. *Cicero De Senectute.* Inflections and word analysis; reading of selections from Ennius, Lucretius, Vergil, Sallust; Roman Literature of the Republic. Four hours, first semester.

4. *Livy, Book XXI.* Review of syntax; a play of Terence for reading at sight; topography of Rome. Four hours, second semester.

5. *Horace.* Odes and selections from the Epodes; study of the style and qualities of Horace; social and political conditions of the Augustan Age; Literature of the Augustan Age. Three hours, first semester.

6. *Pliny's Letters.* Selections from Martial, Tacitus, Suetonius; Silver Age Literature. Three hours, second semester.

ELECTIVE COURSES

7. *Roman Drama.* Plautus, Terence, Seneca. Three hours, first semester. 1915-1916.

8. *Roman Philosophy.* Lucretius, Cicero, Seneca. Three hours, second semester. 1915-1916.

9. *Roman Satire.* Horace, Persius, Juvenal. Three hours, first semester.

10. *Roman Elegy.* Catullus, Tibullus, Propertius. Three hours, second semester.

11. *Roman Literature in English.* An outline course of readings in the best translations, offered primarily to non-classical students. Three hours, first semester. 1915-1916.

12. *Roman Life and Art.* Private life of the Romans; lectures and readings, illustrated by the lantern. This course does not require a knowledge of Latin. Three hours, first semester. Alternates with Course 11.

13. *Teacher's Course.* A careful study of portions of Cæsar; review of elementary Latin grammar, pronunciation, etc.; methods of the work of the first and second years of Latin study. Two hours, second semester.

14. *Teacher's Course.* A careful review of one oration of Cicero and one book of the Æneid, with special attention to forms and syntax, and versification; methods of teaching third and fourth year Latin. This course alternates with Course 13. Two hours, second semester.

The major in Latin must include, in addition to Courses 3 to 6, nine hours to be selected from Courses 7 to 10, 13, and 14.

LIBRARY METHODS

Miss Cook

A course in classification, cataloguing, reference work and bibliography. Elective for Juniors and Seniors. One hour, first semester.

MATHEMATICS

Dr. Notestein

A Preliminary Course. This course is given for the benefit of students who do not take college algebra but desire to take work in science. The course will include such subjects as percentage, involution, quadratic equations, and logarithms. Two hours, first semester.

1. *Trigonometry and Algebra.* A study of the functions of angles; trigonometric formulae, their derivation and transformation, with their application to the solution of problems.

Algebra. The theory of logarithms and other selected portions. Four hours, first semester.

2. *Analytical Geometry.* The bilinear and the polar systems of co-ordinates; properties of the straight line and conic sections; general equation of the second degree and higher curves. Four hours, second semester.

3. *College Algebra.* This course includes progressions, binomial theorem, undetermined co-efficients, series and higher equations. Two hours throughout the year.

4. *Spherical Trigonometry and Solid Analytical Geometry.* Napiers rules of circular parts; the solution of problems and the application of spherical trigonometry to astronomy.

System of Co-ordinates in solid analytical geometry; lines, planes and surfaces. Two hours throughout the year. Prerequisites, 1 and 2.

5 (a). *Differential Calculus.* A study of the rules and formulae for differentiation, expansions of functions, indeterminate forms, application of calculus to curves, maxima and minima. Four hours, first semester.

(b). *Integral Calculus.* The course includes a study of the methods of integration, the application of integral calculus to curves, areas, volume, moment of inertia, pressure, etc. Four hours, second semester.

6. *Surveying.* An elementary course open to students who have taken course 1. Two hours, with field work during the spring term, second semester.

7. *The History of Mathematics.* A study of the mathematical knowledge and methods of primitive races; Egyptians; Hindoos; the Greek schools; the Middle Ages and more recent times. Open to Juniors and Seniors. Two hours throughout the year. 1916-1917.

8. *The Theory of Equations.* This course includes a study of the general properties of the equation;

transformations; differentiation of algebraic functions; cubic and biquadratic equations; location of roots and the solution of numerical equations. Open to Juniors and Seniors. Two hours throughout the year. 1916-1917.

9. *Analytical Mechanics.*

(a). Treats of the fundamental principles of mechanics, the composition and resolution of forces, center of mass, friction, virtual velocity, machines, attraction, rectilinear and curvilinear motion. Four hours, first semester. 1915-1916.

(b). Deals with the laws of motion, central forces, vis viva, impact, work and energy, moment of inertia, rotary motion, motion of a system of rigid bodies in space. Four hours, second semester. 1915-1916.

PHILOSOPHY AND EDUCATION

DR. RANDELS

PHILOSOPHY

1 and 2. *History of Philosophy.* The study of what the great thinkers of the world have thought and written about the problems of life. Open to Juniors. Three hours through the year.

3. *Logic.* A study of the principles of inductive and deductive reasoning. Open to Juniors and Seniors. Three hours, first semester. 1915-1916.

4. *Aesthetics.* A consideration of the principles which underlie the aesthetic appreciation of architecture and painting. Open to Juniors and Seniors. Three hours, second semester. 1915-1916.

5. *Readings in Modern Philosophy.* This course will serve as an introduction to philosophy, since some of the fundamental problems of philosophy will be especially noted. There will be a first hand study of the writings of Descartes, Locke, Berkley, and Hume.

Open to Juniors or Seniors. Three hours, first semester. 1916-1917.

6. *Readings in Philosophy.* A first hand study of the writings of other philosophers than those studied in connection with Course 5. Open to Juniors and Seniors. Three hours, second semester. 1916-1917.

PSYCHOLOGY

7. *General Psychology.* The purpose of this course is to interest the student in the study of himself. The text-book work is supplemented by simple experiments designed to give the student first-hand information and to promote independent work. Open to Sophomores. Three hours, first semester.

8. *General and Educational Psychology.* Continuation of Course 1 with especial attention to those parts of psychology which have the widest application to education. Three hours, second semester.

EDUCATION

9 and 10. *History of Education.* An outline of the development of educational theory and practice in the light of economic, social, political, philosophical, and religious conditions at different ages. Open to Juniors. Two hours through the year.

11. *General Principles of Method.* Selection and arrangement of subject-matter, the doctrine of interest, the formal steps, and the preparation of lesson plans, classroom management. Open to Juniors. Two hours, second semester.

12. *Principles of Education.* Principles contributed by biology, psychology, sociology, and philosophy which appear to be the foundations of modern education. Open to Seniors. Two hours, first semester.

13. *Psychology and Pedagogy of Exceptional Children.* It includes methods of diagnosis, the Binet tests of intelligence, physical tests and measurements,

heredity, natal influences, accidents, diseases, etc. Two hours, first semester.

Graduates from any of the college groups of study who complete not less than eleven hours of the above courses in psychology and education in addition to Course 7 will be recommended by the faculty of the State Board of Education for a teacher's certificate which will enable them to teach in the public schools of Michigan without examination.

PHYSICAL TRAINING FOR WOMEN

Miss Klinefelter

The demand for physical education is rapidly growing. It has become a self-evident fact that properly directed exercise will bring us to a normal state, giving health, development, control, freedom, grace, and poise.

The graded course of regular class work, which is offered to and required of every woman student, covers two years of training, for which two hours' credit is given for satisfactory work done. The classes meet three times a week, and the course consists of drills in Swedish and German gymnastics, floor work (dumbbells or wands), apparatus work (horse, ladder, parallel bars, etc.), the Emerson system of psycho-physical exercises, games, rhythm, and national dances.

The purpose of the course is to improve the organs of the circulatory, respiratory, and digestive systems; to give perfect control over voluntary motion by training the body to obey the commands of the will with the least waste of energy. Relaxing and breathing exercises bring rest to the over-tired nerves. In order to secure the proper position, to correct the bad posture, round shoulders, flat chest, etc., it is necessary to give special prescriptions of corrective exercises. An examination is made when the pupil arrives, and exercises are prescribed by the instructor to correct any irregularity or weakness in development noted at the time.

A special class in rhythmic movement, which consists of harmoniously combined movements of all the members of the body executed to music, is provided for and required of students of the music and kindergarten departments.

These co-ordinated exercises give a rare buoyancy and lightness of the figure, with bodily control which results in unity of action, in poise, freedom and grace, and at the same time furnishes exercise sufficiently vigorous to stimulate the vital organs to increased activity.

Aside from the required work, various sports and games are encouraged in season. During the winter a regular schedule of class basketball games is played to decide the class championship of the college. In the spring and fall months special attention is given to tennis and outdoor sports. The regular tournament deciding the college tennis championship is held in May.

All students taking the work are expected to wear the regulation suit, which consists of a blouse and bloomers made of black material, preferably brilliantine.

PHYSICAL TRAINING FOR MEN

DIRECTOR BLEAMASTER

Special attention is given to the health and physical welfare of the men of the college. In order to help towards this end, physical training work has been put on a credit basis, two hours' work being required of each student before graduation.

During the spring and fall months, outdoor work is emphasized through competition for positions on the various teams, namely, football, baseball, track, tennis, and cross-country running. These teams are open to all, and every one is urged to enter one of them.

During the winter months, from November 1st to April 1st, regular gymnasium practice is required of all Freshmen and Sophomores.

This work consists of two hours of class work each week, regular class periods being scheduled for this purpose. The work is divided into two grades, that for Freshmen consisting of marching, calisthenics (both free hand, dumb-bells, Indian club, and wand drills) and also of the simpler apparatus work on the horse, the bars, and the ladders. The second year men, and those judged by the instructor to be more proficient in that line of work, are given more advanced training in calisthenics and heavy apparatus and are also given practice in leading the other classes.

The work is planned so that every man in the Freshman or Sophomore class, not excused by the Faculty upon the recommendation of the athletic director, must be engaged during a part of his college year in some form of athletics.

The ultimate aim of athletic instruction in Alma is not the creation of a few stars, but the development of the individual to a greater physical proficiency.

In the fall, students who are not on the football squad must engage in cross-country runs at least three times a week. In the spring, they must take up either baseball, track, or tennis.

An incidental fee is required of each student, which gives him use of a private locker and all the privileges of the field and gymnasium, and also admits him free to all athletic contests.

Students who are below grade in more than three hours' work cannot compete in any intercollegiate contest, and students who are below grade in more than two courses must drop out of all athletic teams until their work has been made up.

At the beginning of each semester the student will be subjected to careful physical examination and measurements. Exercises in the gymnasium will then be prescribed which are appropriate for his needs.

An elective for juniors and seniors covers the theory and practice of physical training and coaching. It prepares men for high school positions.

PHYSICS

PROFESSOR ZIMMERMAN

A. *Elements of Physics.* This course is intended for those who wish to pursue the study of Physics and have not presented the entrance credit. Three hours throughout the year, including one laboratory period.

1. *Mechanics, Sound, Light, Heat, and Electricity.*

Lectures, recitations, and laboratory work, similar to Course 2 in that it considers practically the same subject-matter, but from a less mathematical standpoint. It is designed for those students who wish to study physics for its cultural value. Those expecting to take the more advanced courses of the department, or to prepare for medical, dental, or pre-engineering courses, should take Courses 2 and 3.

One lecture, 2 recitations and 2 laboratory periods throughout the year. Four hours' credit.

2. *General Mathematical Physics.*

(a) The first semester is devoted to Mechanics, Sound and Heat, with the first half semester given to mechanics. The course includes the study of the physical units, dimensional formulae, motion, work, and energy, inertia, simple and harmonic motion, properties of solids and fluids, resonance, physical basis of music, laws of strings, nature of heat effects, specific heat, transmission, and transformation of heat energy.

(b) In the second semester are studied magnetism, electricity, and light, including the consideration of terrestrial magnetism, properties of magnets and their fields, potential, conduction, induction, the industrial applications, the nature and propagation of light, reflection, refraction, polarization, interference, and the phenomena of wave length and color. (See 3.) Lectures and recitations illustrated by experiment and the lantern. Four hours throughout the year.

Prerequisite, entrance physics. Registration in Mathematics 3 is advised.

3. (a and b). *General Physics — Laboratory Course.* Designed to accompany Course 2, consisting of quantitative measurements, the use of instruments of precision, the verification of the laws of Physics, the determination of constants and coefficients, and the manipulation of apparatus.

Two laboratory periods each week, one year, two hours. Designed to accompany Course 2, but may be taken in the year following, with consent of Instructor.

4. *Advanced Mathematical Physics.* This course involves the discussion of questions and problems of mathematics as applied to physical science. Graphic methods, the slide rule and logarithms supplement the mathematical calculations.

Prerequisite, Physics 2 and 3, and registration in calculus. One year, two hours, or one semester, four hours.

5(a). *Electricity and Magnetism.* This is an advanced course designed for the study of the fundamental facts of the subject, magnetic fields, electrolysis, thermo-electricity, potential, current, resistance, inductance, capacity, practical applications in electric machinery, and the electro-magnetic theory of light. Prerequisite, Physics 2 and 3, or equivalent. First semester, three hours. (b) Laboratory work of one three-hour period may accompany.

6. (a). *Advanced Course in Light.* Geometrical and physical optics will be treated in detail. Under the former head some of the most important optical instruments will be studied; under the latter, the wave theory of light will be developed.

The course aims to be a practical and useful study of optics as well as to give a careful scientific explanation of many optical phenomena of common experience. Spectroscopy, diffraction, dispersion, interference, and polarization will be discussed thoroughly in lecture and recitation, with demonstration. Of same grade as 4, 5, 7, and. 8; same prerequisite as 5. Three hours, second semester. (b). Laboratory periods of three hours arranged for.

7. *Advanced Heat and Molecular Physics.* The aim of this course is to give a comprehensive view of the science of heat in its theoretical and experimental phases. It has been found to be of special value as an introduction to graduate courses in physical chemistry and mechanical engineering. The study includes the consideration of mercurial and air thermometry, calorimetry, heat equivalents, coefficients of expansion, conductivity, vapor pressures and densities, hygrometry, and pyrometry. For those who have elected Courses 2 and 3 or equivalent. Three hours, second semester. Alternates with 6.

8. *Mechanics, Wave Motion and Acoustics.* The course is designed for the consideration of the physical meaning and mathematical derivation of the fundamental forms and equations of mechanics and wave motion. Two hours, first semester. Alternates with 5.

9. *Pedagogy of Physics.* As a teachers' course it involves the study of the choice of subject-matter and methods of presentation best suited to a secondary course. Two hours, first semester. Prerequisite, College Physics. 5, 6, 7, and 8, Educ. 9 and 10, advised.

10. *History of Physics.* This includes the discussion of the evolution of modern physical science in its relation to the growth of civilization. Two hours, second semester. Prerequisite, same as for 9.

11. *Household Physics.* This course aims to present the principles of Physics by their application to household affairs and other everyday experiences. It is adapted to the requirements of the women of the College who are beginners in Physics, but also valuable to those who present entrance credit in the subject, in that it gives a concise review of the principles with many applications and illustrations. First semester. Two lectures and two hours' laboratory work.

12 (a). *Electrical Measurements.* Of same grade and similar to 5, but arranged to meet the needs of those interested in engineering. The course comprises the study of the units and definitions, resistance, current, power, capacity, mutual and self-induction, magnetic circuits, and alternating current with the various methods of measurement of each.

Three recitations one semester, or two throughout the year. (b) Laboratory work as arranged, one three-hour period.

13 (a). *Dynamo Machinery.* The theory of the motor starting conditions, the building up of the generator, characteristic and magnetic curves, efficiency of machines, etc., are studied.

(b). Laboratory work will be arranged consisting in measuring resistance of lamps, and fields of dynamos by volt ammeter and fall of potential method etc., if desired. Prerequisite, Courses 2 and 3 and registration in calculus. Designed for advanced students of the department or as preparation for teaching. Three hours, second semester.

14. *Physics Conference.* At the weekly meetings the students present before the class, for informal consideration, subjects not treated in the classroom and

reviews of articles appearing in the scientific journals or magazines. This course also aims to teach the student the efficient use of a reference library and of various indexes and catalogs. Each student is requested to prepare a bibliography upon some physical subject. The work has an excellent effect in training students to present their ideas in a systematic manner before an audience. Open to students taking physics as major or elective work. One hour each week.

Physics 1, 2, and 3 are year courses and must be completed before credit is given.

RELIGIOUS EDUCATION

Dr. Randels, Prof. Ritchie, and Mr. Mason

English Bible

1. *Old Testament History.* A survey of the chief personalities and events from the time of Moses to the end of the Maccabean struggle, with special attention to the way the prophets met the political, social, and religious problems of their day. Two hours, second semester. Required of Freshmen.

2. *The Life of Christ,* in which the student will be expected to master the journeys and events of Christ's life in their order. Two hours, first semester. Required of Sophomores.

3. *The Founding and Extension of the Christian Church.* Two hours, first semester. Required of Juniors.

4. *The Bible as Literature.* The literary qualities of the books of the Bible will be studied. The course will also emphasize how indispensable a knowledge of the Bible is to an intelligent appreciation of modern

literature. Open to Juniors. Two hours, second semester.

5. *Development of Religious Ideas.* Origin, chief characteristics, historical development, and significance for civilization of the world's great religions, especially Judaism and Christianity. Three hours, first semester.

6. *Ethics.* Three hours, second semester.

7. *Theism.* Three hours, first semester.

8. *Modern Missions.* Three hours, second semester.

COURSES IN RELIGIOUS LEADERSHIP

9. *History and Agencies of Religious Education.* The history, aims, and organization of modern agencies of religious education, especially the Sunday School. Three hours, first semester.

10. *Principles and Methods of Religious Education.* Three hours, second semester.

ENGINEERING DRAWING

PROFESSOR ZIMMERMAN

1. *Mechanical Drawing and Descriptive Drawing.* A study of orthographic projection as applied to problems relating to the point line and the plane, tangents, and normals, curved lines, curved surfaces, warped surfaces, surfaces of revolution, intersection, intersection and development of surfaces, perspective and isometric projection. Particular attention is given to projection in first and third quadrant. Problems are assigned for home or drawing room, thereby enabling the student to learn the general principles of engineering problems.

In the drawing room the student is taught the use and care of the instruments, drawing to scale, plain free-hand lettering, and the forming of common geometrical curves. One conference hour, two recitations and lectures, and three drawing periods each week, one semester.

2. *Machine Drawing.* The student is expected to make complete shop drawings and tracings from free hand sketches with sufficient exact dimensions, which have been made from various machines.

Must be preceded by Course 1. Two three-hour periods, or three of two hours' length. One semester.

The Conservatory of Music

COURSES OF STUDY

Four courses of study are offered: Pianoforte, Voice Culture, Pipe Organ, Violin. Upon the completion of any of these courses a certificate will be given.

I. Pianoforte

MISS ROBERTS AND MR. DICKERSON

This course is divided into five grades. The time required for its completion will depend upon the talent and application of the pupil.

Harmony, Musical History, and either Voice, Pipe Organ, or Violin, Grades I and II, are required. The following list of compositions is suggestive only of the work required, much freedom of selection being exercised to meet the needs of the individual pupil:

Grade I

Lebert and Stark — Pianoforte School, Part I; Koehler—Practical Method; Loeschhorn, op. 65; Gurlitt, op. 140; Beihl, op. 44; Duvernoy, op. 176; Czerny, op. 39; Sonatinas by Clementi.

Grade II

Lebert and Stark—Pianoforte School, Part II; Koehler, op. 50 and 242; Loeschhorn, op. 66 and op. 52; Concone, op. 24; Bach — Easy Preludes and Fugues; Sonatas by Reinecke, Krause, and Clementi; variations by Beethoven.

Grade III

Czerny—School of Velocity; Heller, op. 46 and op. 47; Bach—Two and three-voiced Inventions; Kullak—

Octave School, Books I and II; Loeschhorn, op. 67; Sonatas by Haydn and Mozart; Pieces by Hummel, Mendelssohn, Heller, Grieg, Godard, etc.

Grade IV

Cramer; Czerny—50 Daily Studies; Bach—French and English Suites; Mozart and Beethoven Concertos; Czerny—op. 740; Beethoven Sonatas; miscellaneous studies and pieces by Moscheles, Tschaikowsky, Schubert, Field, Weber, Moszkowski, Leschetizky, etc.

Grade V

Czerny, op. 740; Clementi—Gradus ad Parnassum; Bach — Well-Tempered Clavichord; Czerny — Legato and staccato, op. 335; Taussig—Finger Exercises; Compositions by Schumann, Chopin, Saint-Saens, Liszt, and the modern composers.

II. Voice

Director Veatch and Mr. Dickerson

The aim of this course is the development of the singing voice until it is capable of rendering representative selections from opera, oratorio, and song literature. The voice must be produced evenly and freely throughout its range. Forced, throaty, breathy, pinched, and otherwise faulty tone production is strongly condemned and avoided. Careful attention is given to adequate breath control, the relaxation of the throat and the centering or "placing" the voice in the resonance cavities of the head. Perfect enunciation and intelligent musicianly interpretation of the masterpieces is earnestly striven for.

Grades I and II

Diaphragmatic breath control is firmly established. Exercises for the purpose of producing purity of tone, flexibility, and a good legato are given. Masterpieces of Vocalization, Books I and II.

Grades III and IV

The purity, richness, and range of the voice are carefully developed. Ballads and songs are used extensively. Practice in ensemble, in duet, trio, quartet, choir, and chorus is furnished. Masterpieces of Vocalization, Book III.

Grade V

In this grade artistic development in regard to tone in sostenuto and pianissimo is carried on, the range and volume of the voice is carefully augumented and accuracy and brilliancy in technical execution is further advanced. A repertoire of arias from operas and oratorios, as well as songs for church and concert, is prepared. Masterpieces of Vocalization, Book V.

III. Pipe Organ

MISS ROBERTS

Students entering this course must have finished the first and second grades in the regular course of pianoforte playing. History and Harmony are required.

Grade I

Study of Manual Touch, Pedal-playing and Elementary Registration; Dunham's Organ School, Books I, II, III and IV; Stainer's Organ Primer; Whiting's First Studies; Easy Pieces arranged by Shelley, Clark, Barrett, Orem, Warren, etc.

Grade II

Bach—Vol. I; Rink—Best Organ School; Lemmens—Organ School, Part II; Practical Service Playing; Easy Pieces by Merkel, Dubois, Callaerts, Tombelle, etc.

Grade III

Bach—Vol. II; Buck—Studies in Pedal Phrasing; Clark—Study of Registration; compositions by Buck, Guilmant, Dubois, Thayer, Lefebure-Wely, Lemaigre, Batiste, etc.

Bach — Vol. III; Mendelssohn — Preludes and Fugues; Sonatas by Mendelssohn, Guilmant, Lachner, Rheinberger, etc. Pieces by Capocci, Smart, Calkin, Widor, etc.

IV. Violin

MR. DAVIS

This course comprises the study of the Violin, Harmony, Musical History, and Pianoforte, Grades I and II.

Ensemble playing is made a special feature. Pupils have the privilege of participating in duets, trios, quartets, rehearsals of the string orchestra class, and the pupils' recitals which are given at intervals during the year.

Grade I

Laoureux, Violin Method, Books I and II. De Beriot, Violin School, Easy Studies and Pieces. Blumenstengel, Scale Studies, Books I and II.

Grade II

Schradieck, Scale Studies. Studies by Alard (op. 40, Books I and II), Wohlfart, Sitt. Selected solos of Dancla, De Beriot, and others.

Grade III

Schradieck, School of Technic, Part III. Casorti, Technics of Bowing. Mazas, Special Studies. Studies by Kreutzer and Alard, op. 16. Violin Sonatas by Haydn, Mozart, Schubert, Gade, etc.

Grade IV

Remainder of Kreutzer Studies, Nos. 30 to 40. Kneisel, Exercises to follow Kreutzer. Wilhelmy, Exercises in thirds. Fiorillo, 36 Studies "Caprices."

Rode, 24 Caprices. Sonatas by Beethoven, Schumann, Grieg, Rubinstein, Sjogren, and others. Concertos by Viotti, Molique, Rode, and Kreutzer.

Grade V

Mazas, op. 36, Book II. Artists' Studies. Dancla, op. 73, 20 brilliant studies. Bavinie's 24 Studies. Sevcik, School of Technic, op. I, Part IV. Bach, six Sonatas. Wieniawski, op. 18. Etude—Caprices. Dont, op. 35. Paganini, 24 Caprices. Concertos by Spohr, Mendelssohn, Beethoven, Bruch, Vieuxtemps, Wieniawski. Concert solos, such as Bruch's Scotch Fantasia, Schnett's 1st Suite. Sonatas by Cesar Franck, Brahms. Violin duets of Viotti, De Beriot, and Spohr, Violin quartet in E-minor by Dont, etc.

POST-GRADUATE COURSE

For graduates of Courses I, II, and III a specially prescribed post-graduate course is offered.

Literary and Theoretical Requirements

In addition to private work deemed sufficient by the various teachers, the following literary and theoretical work is required of graduates in Courses I, II, III, and IV:

Harmony, 4 credits; History of Music, 2 credits; Theory of Music, 2 credits; Counterpoint and Canon, 2 credits; Ear Training, 2 credits; Appreciation of Music, 1 credit; Ensemble, 2 credits; German, 8 credits; French, 8 credits; History, 6 credits; Science, 6 credits; English, 6 credits.

Special Advantages

Each year a musical course is presented by the Conservatory. This year it has eight numbers, including recitals by Mr. Albert Linquest, the eminent tenor; Mr. Allen Spencer, the great American pianist; Miss Grace D. Roberts, organist; Mr. Reese Farrington

Veatch, baritone; Mr. Hugh Dickerson, pianist; and three May Festival concerts. Further musical opportunities are afforded by some of the numbers of the local lyceum course, as described on pages 79 and 80.

The College Choral Club, of nearly one hundred voices, welcomes singers with good voices and ability as sight readers. The Club presents two works each year with the assistance of prominent soloists. Handel's "Messiah" and Dubois's "Seven Last Words of Christ" were presented during 1914-15.

Chorus choirs at various churches afford valuable experience in solo, quartet, and choir singing to qualified students.

The College Glee Club is an organization of young men. A home concert and a road tour are undertaken each season.

Frequent students' recitals are held, thus giving students ample opportunity for public appearance. A recital is given each semester by the faculty of the Conservatory.

A light opera is presented by the students of the Conservatory each season, thus affording opportunity for public experience and stage routine under competent direction. This year Balfe's "Bohemian Girl" will be presented.

The College Orchestra meets regularly during the year, and has for its object the study and presentation of standard orchestral music. The orchestra accompanies the Choral Club at its public concerts.

GENERAL INFORMATION

Suggestions to Applicants for Admission

The requirements for admission to the College are presented on pages 13 to 15. For an understanding of the nature and scope of the courses of study of the

College, the applicant should study the description of courses presented on pages 20 to 53. The index at the end of this Catalog will direct him to the page on which any given subject is treated.

New students should arrive the Monday before the opening of a semester, so as to conclude all necessary arrangements. Young women may go directly to Wright Hall and consult the Dean of Women. Young men should come at once to the President's office in the main college building.

ADMISSION AND DISMISSION

Applicants for admission to any department of the institution will first report to the President for registration. They must present testimonials of good character, and those who are from other institutions of learning must furnish certificates of standing and of honorable dismissal.

All students admitted to the institution will be on probation for the first three months. If during this period a longer stay is by the Faculty deemed inadvisable in the case of any student, he may be so informed privately and permitted to withdraw. Any student may at any time be privately dismissed if the Faculty deem his further connection with the school undesirable. All students entering the College accept these conditions of matriculation.

Any student against whom there are no unpaid bills nor charges of misconduct is entitled to an honorable dismissal.

STUDIES AND EXAMINATIONS

No student may take up a study out of the order prescribed in this Catalog nor drop a study once entered upon without the consent of the Faculty.

No student is allowed to take less than twelve hours of work, nor may he take more than sixteen hours of work without special permission. An applicant asking permission to take more than sixteen hours of work must have maintained an average of B in the work of the previous semester.

- Students whose class work in the current semester averages below B-, or who have more than two conditions, are not allowed to represent the College as delegates to conventions or as members of debating, oratorical, or athletic teams.

Examinations are held at the close of each semester and at intervals during the semester at the discretion of the instructor. The results of examinations are reported to parents at the end of each semester, and recorded for future reference. In case of Freshmen, a report of class standing is sent also at Thanksgiving recess and at the spring vacation.

If at any examination the standing of a student is unsatisfactory, he shall be duly informed and notice shall be sent to his parents or guardian. If there is no improvement, the student may be dismissed from college.

Conditions must be removed within one year from the time of the examination.

KINDERGARTEN WORK

The nature of the instruction in kindergarten work makes small classes necessary. While some freshman women may be admitted to this work, preference is given to young women who have already done college work for a year or two. Such preparation renders the kindergarten training more valuable, and makes the life outlook of the student broader and more satisfying. The College therefore urges young women to take at least a year of the regular college work before beginning the kindergarten training. The number of students permitted to begin this work each year is limited.

CREDITS AND HONORS

By the College marking plan, excellence in scholarship is recognized through a system of honor-points corresponding to the class standings received.

Class standings are indicated by letters. A, B, B-, C, C-, D are passing grades. But honor-points are earned by the first three letters only. For a grade of A in any subject three times as many honor-points will be given as there are hours in the course; for a grade of B, twice as many honor-points; and for a grade of B-, the same number of honor points. One hundred honor-points are required for graduation. For graduation *cum laude,* 200 points are required; for graduation *magna cum laude,* 250 points are required; and for graduation *summa cum laude,* 300 points are required.

DEGREES AND CERTIFICATES

The degree of Bachelor of Arts (A. B.) is conferred upon all graduates of the College, except that the degree of Bachelor of Science (B. S.) may be conferred upon graduates who have had at least one half of their college work in science, if they prefer this degree.

The Bachelor's degree will not be conferred upon a student unless he has been in residence for at least one year. As a rule, a student must be in residence during the year immediately preceding his graduation.

A Master's degree in any of the above-mentioned groups will be given to graduates of at least two years' standing who have pursued advanced studies under the direction of the Faculty, and given sufficient evidence of adequate attainments, including the submission of a satisfactory thesis.

Students who complete the prescribed courses in Kindergarten Training or a course in the Conservatory of Music, will receive certificates.

RULES FOR CLASSIFYING COLLEGE STUDENTS IN THE CATALOG

1. For Sophomore standing a minimum credit of 40 hours is required; for Junior standing, 70 hours; for Senior standing, 100 hours.

2. No student shall be classified as a Sophomore who has any entrance conditions; nor as a Junior, who has any Freshman conditions; nor as a Senior, who has any Sophomore conditions.

ROOMS AND BOARD

The College maintains a residential hall for women, Wright Hall, and one for men, Pioneer Hall.

WRIGHT HALL

Unless excused by the Faculty, all young women are expected to live in Wright Hall, which is under the immediate supervision of the Dean of Women. She is directly responsible for the government of the young women and will assign them their rooms and have the general supervision of their personal habits and activities. The young women to a large degree make and enforce their own regulations.

Parents should never make arrangements for a daughter to live outside Wright Hall without first consulting the Dean of Women or the President.

Parents and guardians are invited to communicate freely with the Dean touching the interests of their daughters and wards, thus enabling her to understand and meet the peculiar needs of each student.

Girls under sixteen years of age will not be received, except by special arrangement.

At the time of application for admission, a deposit of $5 must be made by each student in order to reserve a room. This sum will be credited on room rent or will be refunded if the student decides to withdraw, provided notice is sent a month before the beginning of the college year. Make checks payable to Alma College.

The rooms are single or arranged in suites and are furnished with single enameled couch bed and springs, felt mattress and pad, pillow, oak dresser, washstand with crockery, study table, bookcase, chairs, and window shades. Each student must furnish her own towels, two pairs of sheets and pillow-slips, blankets or comforts, floor coverings, and such conveniences and adornments as may be desired.

Because of the danger of fire, the trustees of the College prohibit all chafing dishes, electric cooking appliances, electric irons, etc. None are allowed in the building except in rooms especially provided in the basement. Parents are asked to co-operate in enforcing this regulation.

The price of single rooms is from $1.00 to $1.75 a week, according to size and location, most of them being $1.50 a week. A deposit of fifty cents is required for keys, which is returned on surrender of keys. Parents are urged to pay room rent at least a term in advance, sending check directly to the College.

PIONEER HALL

This building accommodates between fifty and sixty young men. Those unable to secure rooms in it, will be directed by the College to satisfactory rooms in private homes.

Rooms, in Pioneer Hall are provided with bed, springs, mattress, table, chairs, bookrack and wardrobe. Students must furnish for themselves towels, sheets, pillow slips, and blankets. They also pay for laundering these articles. Rooms are seventy-five cents a week for each occupant, plus the proportionate cost of electric light. Upon engaging a room each applicant deposits $2.50 to meet any damages that may be assessed against him. This deposit is returned if for any reason the room should not be desired, and due notice is given before August 15. For his room key each student deposits fifty cents, which is refunded when the key is returned. Young men desiring to engage rooms should address the College. Checks should be made payable to Alma College.

BOARD

Young women living in Wright Hall are required to board in the building. Young men desiring to get their meals there are cordially urged to do so, as the College authorities believe that some of life's most valued amenities are far more likely to be developed when young men and young women have their meals together. In the dining-room at least a half dozen members of the faculty regularly take their meals.

Board is conducted on the co-operative plan, each student paying his exact share of the total cost of food, help, service, and overhead. The cost is from $3.25 to $3.50 a week, or about $120 a year.

Some young men board in private homes or restaurants. Parents are urged, however, to have their sons board in the College dining-room.

EXPENSES

Parents are urged to pay room rent, board, and tuition by the semester (eighteen weeks) in advance, sending checks directly to the College, made payable to Alma College. Bills for all unpaid accounts will be sent monthly to parents.

ROOMS

As already explained, rooms for young women in Wright Hall cost from one to two dollars per week, or from $36 to $72 a year. In Pioneer Hall, rooms for boys cost seventy-five cents per week, plus the co-operative cost of electric light. This makes the room cost about one dollar a week, or $36 a year.

BOARD

As explained above, co-operative board in Wright Hall costs about $120 a year.

TUITION IN COLLEGE

All students pay $20 tuition each semester, or $40 for the year.

Students will be charged $1.50 per hour for all academic work in excess of sixteen hours per semester. If at graduation the student has paid for more than 120 hours work he shall then be given a rebate so that the total amount paid by him for academic tuition shall not exceed $160.00.

INCIDENTAL FEE

All students pay an incidental fee of $5.00 each semester, or $10.00 for the year. This admits to all athletic games, all public speaking and debating contests, and includes library, gymnasium, tennis court, and museum fees.

MATRICULATION FEE

Every student entering the College pays a matriculation fee of $5.00 at entrance. This is paid but once.

LABORATORY FEES

For the use of laboratory apparatus and equipment, each student taking work in chemistry or physics pays a special laboratory fee of $5.00 each semester, and each student taking biology a fee of $3.00 each semester.

GRADUATION FEES

Students receiving diplomas pay a fee of $5.00 while those receiving certificates in music or kindergarten work pay one dollar.

Tuition in the Conservatory of Music

LESSONS IN VOICE—WITH DIRECTOR

One thirty-minute lesson a week, per semester..	$25.00
Two thirty-minute lessons a week, per semester.	45.00
Three thirty-minute lessons a week, per semester	60.00

WITH ASSISTANT

One thirty-minute lesson a week, per semester..	$15.00
Two thirty-minute lessons a week, per semester.	25.00
Three thirty-minute lessons a week, per semester	35.00

LESSONS IN PIANOFORTE, PIPE ORGAN, AND VIOLIN

One thirty-minute lesson a week, per semester..	$18.00
Two thirty-minute lessons a week, per semester.	30.00
Three thirty-minute lessons a week, per semester	40.00

WITH ASSISTANT

(*Same rates as with Assistant in Voice*)

Harmony, per semester	$ 8.00
History, per semester	6.00
Theory of Music, per semester	5.00
Ear Training, per semester	4.00
Counterpoint and Canon, per semester	5.00
Methods	10.00

USE OF PIANO

One hour per day, per semester	$ 4.00
Two hours per day, per semester	6.00
Three hours per day, per semester	8.00

Classes in Sight Reading and Musical Appreciation are free to all students. Small fee for Choral and Glee Clubs.

EXPENSES—SUMMARY

In the College the necessary expenses for the year are about $250, distributed thus: Tuition, $40; incidental fees, $10; room rent, $36; table board, $120; books and laboratory fees, $25; laundry, etc., $19. For rent, board, books, laundry, etc., much more may be spent, while some students will spend somewhat less. Personal expenses will be what the habits of the student demand.

For room rent most young women will pay $54 a year instead of $36, as most of the rooms in Wright Hall cost $1.50 a week.

Some students pay their room rent by caring for the furnace and by doing other work in private homes; some earn board, or both room and board, by work in hotels, restaurants, and boarding houses. Many are paid for Saturday work in stores and elsewhere. The young man having $100 can come to Alma with confidence that he can get through a college year and a college course, if he is willing to work hard. For young women the opportunities are less numerous than are those for young men, but many young women are earning a large part of their expenses. In general, a young woman must have at least $150 in order to be sure of getting through a year.

EXPLANATIONS

Special students taking one to five hours per week, pay no incidental fee; those who take from six to nine hours per week, pay $2.50 per semester; those who take ten or more hours per week, pay $5 per semester.

Music students giving full time to study, pay the regular incidental fee. Those coming in for lessons incidentally are not asked for this fee.

Music students taking at least two lessons a week, are allowed to take work in College classes to the extent of five hours a week without extra charge.

Tuition bills in all departments must be paid by the semester in advance, and board at Wright Hall and room rent in either dormitory, at least by the month in advance.

It is an advantage to the College as well as to the student to pay all bills for at least a term in advance. Parents are urged to send checks directly to the College in payment of bills.

COLLEGE BUILDINGS

There are at present six academic buildings on the College campus: the Recitation Building, Wright Hall, the Library, Hood Museum, the Gymnasium, and Pioneer Hall. There is also the central heating plant.

Recitation Building

The Recitation Building contains the College offices, the chapel, twenty-two recitation rooms, laboratories, and department offices, and halls for the Zeta Sigma and Phi Phi Alpha literary societies.

Wright Hall

Wright Hall, the home provided for the young women through the munificence of the late Ammi W. Wright, in architectural appearance and in adaptation to its purposes is not excelled by any building of its kind in the country. It is built of paving brick trimmed with stone, and is four stories in height above the basement, which is constructed of field stone. The interior finish is very pleasing and the arrangements for the comfort of the occupants are complete. Great care is being taken to surround this noble edifice with a fit setting of greensward, shrubbery and trees, that it may typify to coming generations of college students the ideal college home.

LIBRARY

The Library building contains the stack room, the large and well-lighted reading room, and a separate history room. It is built of red brick trimmed with stone, is handsomely finished in hardwood, and is in all respects well adapted to its particular use.

In the Library building, besides the General Library, are the following special collections:

1. The Pollasky Law Library.
2. The Lucy Plum Mitchell Library of History and Political Economy.
3. The Sarah H. Lancashire Library of Fiction.
4. The Arthur Hill Library of Lincolniana.
5. The Joseph W. Ewing Memorial Library of Pedagogy and Education.
6. The Mary C. Gelston Library of Latin Language and Literature.
7. The David M. Cooper Memorial Library of Ethics and Theology.

These collections contain 25,440 volumes and a valuable collection of pamphlets. There has been an increase of 443 volumes during the past year.

The collection embraces a great variety of works in classical, English, and foreign literature, in biography and history, in the various sciences and arts, and is exceptionally well furnished with encyclopedias and complete sets of American and European reviews. They are classified and arranged according to the Dewey system, and an index of authors, titles, and subjects places the contents of the Library at the command of all who are in search of information upon any subject.

Immediately adjoining the library stacks is the reading room, supplied with cases of reference books and the leading journals and periodicals of this country and England.

The law library, the gift of Marcus Pollasky, of Chicago, consists of nearly eight hundred volumes. During library hours it is accessible to members of the bar, who are cordially invited to avail themselves of its privileges.

The Library of Lincolniana, the gift of the late Hon. Arthur Hill, of Saginaw, occupies a special case in the history room.

The Library is open daily from eight to twelve, from one to six, and from seven to nine; except that on Saturday mornings it is closed until nine o'clock; on Monday evenings it is closed, and on Wednesday evenings it is not opened until eight o'clock.

Students may examine and use the books and periodicals during library hours, and may draw one book at a time to be taken away and returned in one week, and, if renewed, one week longer. Other persons are allowed to use the library and reading room freely, and on payment of an annual fee of $1.00 are permitted to draw books on an equal footing with the students. Transient visitors in town are charged twenty-five cents per month. Resident ministers of the gospel and their families are permitted to draw books free of charge.

During the past year the library has received donations of books and magazines from Smithsonian Institute, Library of Congress, United States Government, state of Michigan, state of New York, Miss Esther Braley, Mrs. J. H. Woods, Theo. S. Higbee, Dr. Jay Clizbe, E. Kelly, M. W. Tanner, L. R. Taft, Carnegie Endowment for International Peace, Union Portland Cement Co., Michigan Historical Commission, W. D. Tucker, L. A. White, C. H. Jones, President Blaisdell, T. Tonge, Professor Mitchell, George Wahr, F. J. Fitch, E. Bierer, Charles Moore, Beulah Parr, Professor Cook, San Diego Board of Commerce.

FRANCIS A. HOOD MUSEUM

The Hood Museum of Natural History, the gift of Mrs. Francis A. Hood, of Saginaw, and Mr. Frank Hood, of Marinette, Wis., was finished and dedicated in June, 1900. It is built of rock-faced paving brick, trimmed with red sandstone. It is two stories and a basement in height, with slate roof, and is one of the finest structures on the campus. It has two large exhibition halls lighted to give the largest possible space for the display of the collections. In the basement are storerooms and laboratories for the preparation of specimens, making the building one of the most complete and convenient museum buildings in the state.

The cases in use in the museum are built of oak, constructed on plans furnished by the U. S. National Museum, and are provided with adjustable shelves, dust and insect proof doors, etc. At present the geological and mineralogical collections are the only ones systematically installed. Additional cases for the Winchell collections of fossils and for the Albino deer, have been provided through the generosity of Mrs. Francis A. Hood, of Saginaw, and Mr. Frank Hood, of Marinette, Wis.

The collections in the Museum are:

1. The Stillwell collection of Michigan birds and animals.
2. The W. S. Crawford collection of birds.
3. The Shroyer-Wilcox collection of palaeozoic fossils.
4. The Alexander Winchell collection of rocks, minerals, and fossils.

5. The general geological and mineral collection.
6. The general biological collection.
7. The William S. Cooper collection of shells, minerals, and butterflies.

The Stillwell collection was made by a former resident of Alma, most of the specimens being collected in the vicinity of the College and representing some species now extinct or very rare for this locality. It numbers nearly 300 specimens, and was obtained by purchase.

The W. S. Crawford collection was made by the donor in various parts of the United States, and has a variety of rare specimens of birds from Florida, Arizona, and Michigan.

The Shroyer-Wilcox collection is a systematic collection of palaeozoic fossils, those of the Cincinnati group of rocks being especially well represented. It is valuable as a supplement to the other collections of fossils in the museum. It was acquired by purchase.

The Alexander Winchell collection is the largest and most valuable acquisition of the museum. The collection is that gathered by Professor Winchell during his long and active life as a geologist and teacher, and contains over 6,000 specimens, many of which were collected in Michigan by Dr. Winchell and described by him. These type specimens have an especial value. The collection was presented by friends.

The general biological collection contains representative vertebrate and invertebrate animal material, most of it yet to be arranged for exhibition, which has been collected during the history of the College. It will occupy the upper hall of the museum. It is estimated to contain 2,000 specimens.

The general geological and mineral collection is installed in the east end of the lower hall of the museum and numbers 2,500 specimens. It has been obtained largely by small gifts from numerous friends.

THE GYMNASIUM

The gymnasium building contains the studio of the director of the conservatory of music, the kindergarten rooms, the gymnasium, and an office. The rooms occupied by the kindergarten department are large and well-lighted, and in every respect are well arranged for both school and recitation purposes. The gymnasium occupies the entire upper floor of the edifice, and with its equipment of apparatus, the gift of Mr. John W. S. Pierson of Stanton, Mich., and Mr. Charles H. Davis of Saginaw, Mich., furnishes adequate facilities for athletic training. Here during the winter months, daily classes in physical culture offer the opportunity for that systematic training of the body which is so necessary to the health of the student. This work is required of freshmen and sophomores, and is open to all other students.

PIONEER HALL

Pioneer Hall, one of the two original college buildings, is the dormitory for young men. The building is heated by steam and lighted by electricity. Both shower and tub baths, together with ample toilet conveniences, are provided in the basement. The building has been entirely remodeled at a cost of nearly $9,000. It is as good a dormitory for men as is found in the state.

Students living in the building are loosely organized for government. They make their own regulations and enforce them, being advised by the president and a faculty committee. This form of government has been satisfactory.

THE LABORATORIES

The equipment of the physics laboratory is ample for experimentation in mechanics, hydrostatics, light, heat, sound, and electricity. The laboratory is supplied with gas, water, tables, and other appliances which add materially to its facilities for scientific work.

The biological laboratory is furnished with all necessary apparatus for thorough and practical work. The equipment consists of a sufficient number of compound and simple microscopes, microtomes, paraffin baths, air and water nets, collecting boxes, etc., for individual field and laboratory work.

The chemical laboratories occupy the entire basement of the east wing of the recitation hall.

The general laboratory is fitted up with tables, apparatus and chemicals, and will accommodate twenty-four students. Each desk is supplied with gas and water, re-agents, and necessary apparatus. Particular attention has been given to procuring apparatus for hastening tedious processes as much as possible, and to convenience of arrangement.

The quantitative laboratory is equipped with three fine weighing balances, blast lamps, and combustion and crucible furnaces, and is provided with a large ventilating hood.

The organic laboratory has a good ventilating hood, balance, hot air and water ovens, Kieldahl's apparatus for the determination of nitrogen, fat extractors, a polariscope, and such other apparatus as is required for its work.

The chemical department also possesses a fine spectroscope and a sufficient amount of miscellaneous apparatus for thorough, practical work. A reference library consisting of some of the latest chemical books is kept in the laboratory for the use of students.

A fine projecting and reflecting lantern has been added to the equipment of the laboratories.

DAVIS ATHLETIC FIELD

The generosity of Mr. Charles H. Davis, of Saginaw, provided the College in 1902 with a modern athletic field. About five acres of the campus not far from the gymnasium was perfectly graded, drained, surrounded with a high board fence, and equipped with football field, baseball diamond, quarter-mile cinder track, bleachers, and a grandstand. Water mains bring running water to the field. Outside the field are several tennis courts. In 1912 Mr. Davis added an imposing entrance gate, which renders the field one of the most attractive as well as one of the most adequate among the college fields of the Middle West.

RELIGIOUS ORGANIZATIONS

Throughout the College history, Alma students have maintained a Young Men's and a Young Women's Christian Association. The members of these organizations strive to meet new students upon their arrival at Alma and assist them in registering, in finding rooms, and in becoming comfortably located. At the opening of each semester they hold social affairs for the purpose of promoting acquaintance. A union religious meeting is held on Wednesday evenings and separate meetings on Sundays. These meetings aim to develop true manliness and womanliness and to make clear that real religion is a thing of works as well as of faith. The organizations maintain voluntary Bible classes and send out leaders to organize and conduct mission Sunday schools. A band of student volunteers to mission work is regularly maintained. The associations unite with the faculty in conducting special meetings during the college week of prayer. In February, 1915, the special speaker was the Rev.

Leonard A. Barrett, pastor of the Ann Arbor Presbyterian Church. Christian manhood and womanhood is the aim of these associations. Consequently, they appeal to practically every student that comes to Alma.

DIVISIONS OF THE COLLEGE YEAR

For purposes of administration and instruction, the year is divided into semesters of eighteen weeks each, the first opening about the middle of September, the second about the 1st of February. The usual holiday and spring vacations divide the year into three terms of about twelve weeks each.

Students absent from recitations immediately preceding or following a vacation are assessed one dollar for each absence. However, not over three dollars is so assessed for such absences before, or three dollars after, a vacation.

For the dates of the opening and the closing of terms and semesters, see Calendar at the beginning of this catalog.

ORATORY AND DEBATES

Alma College is a member of the Michigan Inter-Collegiate Oratorical Association, which conducts two contests, one for men and one for women, on the first Friday in March of each year. The college is also a member of the Alma-Hope-Olivet League and meets each of these colleges in debate annually. Preliminary trials to decide upon contestants in the different competitions are scheduled during the year as follows:

Freshman Oratorical Contest (men)............ First Friday in November

Freshman Oratorical Contest (women).......... Second Friday in November

Men's Oratorical Contest...First Friday in December
Women's Oratorical Contest ....
Second Friday in December
Prohibition Contest.......Third Friday in February
Women's Reading Contest ....Third Friday in April

The management of these local contests is under the charge of the local Oratorical Association and Debating League.

LITERARY SOCIETIES

Two literary societies, Zeta Sigma and Phi Phi Alpha, are conducted by the young men of the College, and three, Alpha Theta, Philomathean and Froebel Club, by the young women. The aim of these societies is the development of a correct literary taste and of the power of precise and ready expression.

COLLEGE PUBLICATIONS

The *Alma College Bulletin* is published monthly by the College. This publication aims to keep the alumni, schoolmen, high school students, and friends in touch with the work, the progress, the needs, and the prospects of the College. It is sent without charge to all who may apply, either for single issues or for a place on the permanent mailing list. The College catalog makes one of the issues, and the "Alma Alumnus" several others.

The Almanian is a student publication, and is issued weekly during the college year. It is conducted by a board of editors who aim to make it a faithful reflector of college life in all its phases, as well as a consistent supporter of the interests of the institution from the standpoint of the student body.

The Maroon and Cream is the College annual published in May by the Junior class. It epitomizes the student activities of the year.

THE CLASSICAL CLUB

The Classical Club is conducted by the students of the ancient languages under the supervision of the instructors in Greek and Latin. The aim of the Club is the promotion of an interest in classical literature and archaeology. Meetings are held once a month during the college year.

THE SCIENCE CLUB

The Science Club was organized for general scientific research and for study in particular of the plants, animals, and geology of the region in which the College is located. Meetings are held once a month during the college year.

THE LYCEUM COURSE

It is conceded that an important means of education is the popular lecture and entertainment course. Through it, all classes of the community are brought together for the purpose of hearing and enjoying the best talent on the public platform. Alma has had such a course in successful operation for more than a dozen years. It is managed by a committee representing both the College and the city. For the present year the following numbers constitute the course:

The Clark Concert Company.

Duggan Grand Opera Company.

Thomas Brooks Fletcher.
Edward A. Steiner.
Katherine Ridgeway Company.
Rogers & Grilley.

AID FOR STUDENTS

Students of limited means expecting to complete a regular college course at Alma, can usually obtain reasonable aid upon application to the President, who will bring their cases to the consideration of the Committee on Aid to Students. This committee administers an all too small aid fund. Students partaking in this fund are expected ultimately to return the amount which they have received unless they enter into a life work which is so purely missionary as to render such return a burden. No interest is asked, although often beneficiaries prefer to pay interest.

Generous-minded friends, even though they can give but little, can scarcely do better with their gifts than to add them to this student aid fund.

Students preparing for the ministry of the Presbyterian Church can secure as much as $100 a year from the Board of Education, if they need help, and if they are recommended by their home presbytery.

The children of home and of foreign missionaries are granted scholarships yielding $30 per year when they are regular students of the College.

The College has forty-seven permanent scholarships, most of which yield $30 per year, besides a varying number of annual scholarships supported by Alma alumni organizations, by individuals, and by churches. These scholarships are administered, in varying ways, by the faculty committee. A few go to persons designated by the donors. A few are granted on a basis of excellent class work. Most, however, are awarded to students of promise who have real need of help. Young men receiving scholarships are expected to abstain from the use of tobacco, while all thus aided are expected to return to the College through help rendered a part of the value of the scholarship received, unless specifically excused because of exceptionally exacting duties. Scholarships are usually granted for a year. They may be withdrawn, however, at the end of the first semester if recipients fail to do satisfactory work.

Scholarships thus administered become a help to the College as well as to the student. The demand for scholarships is regularly greater than the supply. Friends, Sunday schools, churches, woman's clubs, or other organizations interested in helping young people, are invited to correspond with the President with reference to assuming a scholarship or part of a scholarship.

A number of students can usually find employment in the homes, stores, hotels, or boarding houses of Alma. The College, too, is at times able to give work to some young men and young women. Young men having a hundred dollars with which to begin a freshman year can usually complete a College course without interruption, provided they have health, energy, and a willingness to do faithful work. Young women should have at least fifty dollars more.

PERMANENT SCHOLARSHIPS

Permanent scholarships, most of them representing an endowment of $500 and yielding $30 per year in tuition, have been made available by generous friends of youth and of the College. The scholarships thus held are as follows:

Name.	Donor.
Mrs. C. P. Colvin	Mr. C. P. Colvin, Saginaw
Thomas Merrill	Mr. Thomas Merrill, Saginaw
Memorial Presbyterian Church	Rev. D. M. Cooper, Detroit

Laurense	Mr. Leonard Laurense, Detroit
Martha P. Seeley	Mr. John F. Seeley, Caro
Harry G. Kelton	Mr. and Mrs. J. M. Kelton, Bay City
Charles D. Chatfield	Mr. Clarence B. Chatfield, Bay City
Lucy Plum Mitchell	Prof. Jas. E. Mitchell, Alma
Louis Penoyer Memorial	Mrs. Emeline Penoyer, Saginaw
Edith M. Davis	Mrs. Edith M. Davis, Saginaw
Alba A. Lull	Mr. Alba A. Lull, Pontiac
Martha B. Heartt	Mr. William A. Heartt, Caro
William A. Heartt (four)	Mr. William A. Heartt, Caro
First Presbyterian Church	First Presby. Church, Saginaw
David M. Ladd, Memorial	U. P. and C. Church, Milford
Marion H. Plum	Mr. J. H. Plum, Indianapolis, Ind.
Helen Anderson Tanner	Mr. M. W. Tanner, Saginaw
Watson B. Robinson	Mr. James W. Robinson, Alma
Theodore D. Marsh	T. D. Marsh, D. D., Grand Rapids
Harriet Barton Wright, Memorial	Mrs. J. H. Lancashire, Manchester, Mass.
Margaret N. Thorburn	Mr. Jas. T. Thorburn, Detroit
John Cameron	Trumbull Ave. Presbyterian Church, Detroit
J. Ambrose Wight	First Presbyterian Church, Bay City
Katherine M. Inglis	Mr. Thomas Merrill, Saginaw
Brownell (eight)	Mrs. Mary E. D. Brownell Estate, Detroit
William E. Rohlfs	Many friends
Grace Church, Saginaw	Mr. Thomas Merrill, Saginaw
Francis King	Mr. Francis King, Alma
M. S. Smith	Mrs. Helen Smith Deming, Detroit
Hazel B. Garland	Mr. Arthur Garland, Howell
Nathan B. Bradley	E. E. and F. W. Bradley, Bay City
Horace B. Silliman	Dr. Horace B. Silliman, Cohoes, N. Y.
John P. Cleaveland	First Presbyterian Church, Detroit
Westminster	Westminster Presbyterian Church, Bay City
Frederic Conover	Mr. and Mrs. C. A. Conover, Coldwater
Gould (two)	Mrs. Helen Gould, Saginaw

UNIVERSITY FELLOWSHIP

The University of Michigan presents annually to a graduate of Alma a fellowship carrying an honorarium of $300. The recipient gives to the University some return in service, but has most of his time free to pursue advanced studies. The fellow is chosen by the Alma faculty. A member of the senior class or a graduate of not over four years' standing is eligible. Mr. H. O. Whittemore represented Alma in 1912-1913, studying landscape designing; Mr. Claude W. Satterlee in 1913-1914, studying mathematics; Miss Faith M. Welton in 1914-1915, studying Latin.

HONOR SCHOLARSHIPS

The Silliman and Brownell Scholarships, each amounting to $50 in tuition and fees, are to be awarded annually at the close of the first semester to a young man and a young woman in the junior class of evangelical belief and exemplary conduct who have the highest scholarship records as determined by honor points in the studies of the freshman and sophomore years. These scholarships during 1914-15 were awarded to Montie McFarlane and to Auda Gill.

PRIZES

Greek Prize. The income of the Justin Marsh fund is awarded every second year to the student receiving the highest grade in New Testament Greek. This was last awarded to Miss Rose Carol Gray, '14.

Oratorical Prizes. Rev. W. H. Mason, pastor of the Presbyterian Church, Alma, offers a gold medal annually to the young man winning first place in an oratorical contest conducted under these conditions:

1. There must be at least six contestants.
2. The contest must take place before Christmas.
3. The winner may not contest a second time. He may, however, challenge another winner to determine which of them shall represent the College at the state contest.

This was awarded in 1913-1914 to Grant Cook. In 1914-1915, it was not awarded.

The donor offers a gold medal under similar conditions for a women's contest.

This prize has not yet been awarded.

EXTENSION WORK

The College has established an extension division, which includes (a) Saturday and evening work in Alma and adjoining communities; (b) Correspondence work; (c) Lectures in convenient communities; (d) Lyceum courses made up of lectures, musical entertainments, and readings. A special bulletin is issued containing full particulars concerning this work. Those interested are invited to ask for a copy.

As part of this work the Library offers its services to high school instructors who are helping students in the preparation of debates and of orations. This service is without charge. The Library also will lend books to ministers who are reading along special lines, the only charge being the payment of postage. Suggestions relative to helpful books will be made to those who apply. For this service address librarian, Alma College, Alma, Mich.

A summer session will be held from June 21 to July 30, 1915. Any interested are asked to apply for the special bulletin.

A training school for Sabbath school workers will be held from July 18 to July 25, 1915, with a large faculty of experienced teachers and lecturers. Ask for the special bulletin.

A summer graduate school for ministers will be held at East Lansing, in co-operation with the Agricultural College, from June 29 to July 9, 1915. Ministers of all denominations will be welcome. A special bulletin tells of it.

ALUMNI ASSOCIATION

OFFICERS AND DIRECTORS

President ....James E. Mitchell, '93
Vice-President ....Sadie Messinger, '03
Secretary-Treasurer ....Stanley A. Graves, '10
Ella Bittner, '12 Rev. J. Earl Webber, '05
Kendall P. Brooks, '97 Abram J. Van Page, '97

The Association was formed by the Class of '91. It has had a vigorous growth and has come to be regarded as an important and influential college organization. All graduates of the College are members of the Association.

In June, 1914, the constitution of the Association was changed by making the governing body consist of a board of seven directors, and by substituting annual gifts for the former dues.

The annual meeting of the Association is held on Wednesday of commencement week, which has been designated as Alumni Day.

ALUMNI CLUB OF CHICAGO

President ....Abram J. Van Page, '97
Vice-President ....George A. Hill, '00
Secretary-Treasurer.............Cora Mason, Flint

Next annual meeting February 19, 1916.

ALUMNI CLUB OF DETROIT

President ....Wallace F. Webber, '03
Vice-President ....Arthur R. Moon, M. D.
Secretary-Treasurer ....Lillian Jackson

The annual meeting, the first week in April.

Secretary's address, 129 Richton avenue, Detroit.

ALUMNI CLUB OF NEW YORK

President ....Watson B. Robinson, '01
Vice-President ....Israel Himelhoch
Secretary-Treasurer ....E. Blake McDonald

The annual meeting, the first Friday in May.
Secretary's address, 420 W. 57th street, New York.

ALUMNAE ASSOCIATION OF THE KINDERGARTEN TRAINING DEPARTMENT

President ....Mrs. Kate Coddington, '03, Alma
Sec'y-Treas.....Miss Edna Swigart, '01, Ann Arbor

DEGREES CONFERRED

At the commencement of the College, held June 18, 1914, the following degrees were conferred:

HONORARY DEGREES

The Degree of Doctor of Divinity Upon

Samuel G. Livingston ....Lapeer

The Degree of Master of Arts Upon

Bernice Hunting, '91..................Tripoli, Syria
Alice Rebecca Marsh, '02...................Detroit

DEGREES UPON EXAMINATION

The Degree of Bachelor of Arts Upon

Ruth Mary Cook, *magna cum laude*...........Alma
Rose Carol Gray, *cum laude*...........Breckenridge
Milo Arthur V. Hogan, *cum laude*...........Detroit
Faith Mable Welton, *magna cum laude*..Grand Rapids

The Degree of Bachelor of Philosophy Upon

Emily Eleanor Beach, *magna cum laude*......Detroit
Celia Creaser, *cum laude* ....Alma
Bertha Belle Hubbell, *magna cum laude*.......Alma
Fred Samuel Johnson ....Cadillac
Alice Virginia Kennedy, *cum laude*........St. Louis
Verne E. Rogers ....Tecumseh
Meryl Laura Seaver ....Pompeii

The Degree of Bachelor of Science Upon

Theodore Shirley Higbee	Alma
Carroll C. Hyde, *cum laude*	Addison
Archie Ruben Maybee	Hudson
Francis Roy Phillips	Shabbona
Walter Albert Vogt	Palmyra

COLLEGE HONORS

Salutory	Bertha Belle Hubbell
Group I—Latin-Greek	Faith Mable Welton
Group V—English-History	Emily Eleanor Beach Bertha Belle Hubbell
Silliman Scholar	Milo A. V. Hogan
Brownell Scholar	Bertha Belle Hubbell
Marsh Greek Prize	Rose Carol Gray
Valedictory	Faith Mable Welton

CERTIFICATES GRANTED

At the commencement of the College held June 18, 1914, certificates were granted as follows:

A State Teachers Certificate to

Emily E. Beach
Ruth Mary Cook
Celia Creaser
Bertha Belle Hubbell
Carrol C. Hyde
Fred S. Johnson
Alice V. Kennedy
Archie R. Maybee
Francis Roy Phillips
Verne E. Rogers
Walter A. Vogt
Faith Mable Welton

A State Kindergarten Certificate to

Eva P. Barnes
Glady C. Bond
Margery A. Chase
Hazel C. Clark
Margaret A. Duncanson
Gretchen Eyer
Leof L. Fellows
Florence E. Henderson
Edna B. Kuhlman
Frankie L. Kuhlman

Hazel C. McKenzie
Lydia M. Malpas
Ethel G. Moore
Lila Redmond
Madeleine Reynolds
Hazel E. Robbins
Ruth Stacy
Bertha Wagner
Beatryce Whitelem
Bertha D. Williams

A Certificate in Music to

Bonnie R. Fuller (voice) Florence E. Rozema (voice)
Florence E. Rozema (piano), post-graduate

CASH CONTRIBUTIONS

(From February 1, 1914, to February 1, 1915)

There was contributed toward the general expenses of the College $563.12 by the following:

Karl B. Allured, Chicago, Ill.; Rev. Paul J. Allured, Lien Chow, China; Charles F. Angell, Ionia; Mrs. Carrie Rowland Armstrong, Saginaw; J. A. Bittner, Alma; Miss Eleanor Bittner, Alma; Rev. John Y. Broek, Plainfield, N. J.; Rev. L. S. Brooke, Howell; Miss Mildred Burns, Monroe; Mr. Clark; Mrs. J. E. Clark, Govan, Wash.; William S. Cooper, Palo Alto, Cal.; Mrs. Esther M. Cram, Flint; Mrs. Myra S. Crawford, Menominee; S. F. Dobbins, Marshall; Ralph C. Ely, Deming, N. M.; William A. Ewing, Charlevoix; Mrs. Carolyn B. Fairman, Chicago, Ill.; Foster Fraker, Lapeer; "Friends," Ithaca; "Friend," Baltimore, Md.; S. A. Gill, Pellston; Miss Selma O. Hahn, Detroit; Mrs. Ailsie Bradfield Hall, Decatur; Mrs. Stephen B. Hill, Kawkawlin; E. J. Hopkin, Breckenridge; Rev. George P. Horst, Philadelphia, Pa.; A. E. Hunter, Homer; F. W. Hooper, Alma; Miss Bernice Hunting, Tripoli, Syria; Rev. Weston T. Johnson, Sapporo, Japan; Miss Beryl Kefgen, St. Charles; Miss M. E. Lehnen, Marquette; Henry M. Leland, Detroit; Rev. William H. Long, Brooklyn; F. L. Lowney, Midland; F. B. McComb, Ashland, Ky.; Angus McKinnon, Calumet; J. A. McPhail, Calumet; Miss Alice R. Marsh, Detroit; L. P. Melendy, Howell; O. M. Misenar, Newberry; Charles Moore, Detroit; Hira C. Moore, Alma; Rev. Henry M. Morey, Ypsilanti; Edwin Owen, Grand Rapids; J. Boyd Pantlind, Grand Rapids; Mrs. Camilla Paul, Arrowrock, Mo.; Fred R. Perry, Detroit; Rev. Harry E. Porter, Zanesville, O.; Alfred F. Pratt, Batavia, N. Y.; Miss Mary Putnam, Howell; U. Grant Race, Detroit; Harry E. Reed, Wichita, Kan.; Rev. W. H. Rice, Hamilton; Miss Ruth Robbins, Lapeer; J. W. Robinson, Alma; Walter Scotten, Detroit; Miss Olive J. Smith, Alma; Rev. Willard K. Spencer, Ionia; Rev. H. R. Stark, Saginaw; John Strick, Brighton; Ray G. Swigart, Albion; Rev. John Thomas, Grand Rapids; E. A. Thompson, New Haven, Conn.; "Unknown," Grand Rapids; A. F. Waldo, Riverside, Ill.; C. H. Washburn, Alma; Rev. J. E. Webber, Northville; A. B. Wight, Chicago.

The following Presbyterian churches have contributed to the General Expense fund, a total of $648.57.

Adrian, $40.00; Battle Creek, $70.00; Bay City (First), $10.39; Westminster, $20.00; Benton Harbor, $5.00; Brighton, $2.00; Buchanan, $5.00; Caro, $10.00; Concord, $10.00; Detroit (Bethany), $30.00; Church of the Covenant, $10.00; Jefferson Avenue, $99.00; St. Andrews, $5.00; Woodward Avenue, $150; Emerson, $6.00; Erin, $1.30; Hillsdale, $10.00; Holly, $7.00; Ida, $5.00; Lafayette, $3.10; Lapeer, $5.00; Marlette (First), $8.50, (Second), $7.00; Marquette (S. S.), $3.15; Mason, $11.00; Menominee, $28.00; Midland, $32.00; Milford, $3.86; Mt. Pleasant, $35.00; Mundy, $5.00; Palmyra, $5.00; Petoskey, $10.00; Redford, $3.00; Saginaw (Grace), $2.52; Washington Avenue, $3.00; St. Ignace, $0.63; Sandusky, $4.00. Men's Club of Congregational Church, Stanton, $1.12; Men's Club of Immanuel Presbyterian Church, Detroit, $14.00.

For scholarship purposes the following sums have been given totaling $541.00.

Presbyterian Churches: Albion, $30.00; Detroit (Scovel Memorial), $60.00; Saginaw (Warren Avenue), $30.00; Chicago Alumni Association, $31.00; New York Alumni Association, $40.00; Arthur H. Buhl, Detroit, $50.00; Mrs. Mary W. Curtis, Petoskey, $40.00; Mrs. Louisa Y. King, Alma, $30.00; Alex McPherson, Detroit, $25.00; J. Boyd Pantlind, Grand Rapids, $50.00; Fred R. Perry, Detroit, $40.00; John W. S. Pierson, Stanton, $50.00; R. H. Webber, Detroit, $25.00; C. C. Yerkes, Northville, $40.00.

For the expenses of the Ministers' Graduate School last summer there was contributed $180 by the following persons:

C. H. Davis, Saginaw; F. D. Eatherly, Northville; Mrs. Louisa Y. King, Alma; Henry C. Leland and W. C. Leland, Detroit; Charles Moore, Detroit; Alex McPherson, Detroit; A. B. Park, Adrian; John F. Seeley, Caro; and M. W. Tanner, Saginaw.

For chapel hymnals there was contributed $98 by the following persons:

Thomas C. Blaisdell, Alma; Rev. J. Clizbe, Alma; Albert P. Cook, Alma; B. Dangerfield, Pittsburgh, Pa.; B. F. Loder, Lapeer; Frank Knox, Manchester, N. H.; W. T. Knowlton, Saginaw; Rev. Hugh T. Kerr, Pittsburgh, Pa.; R. E. Olds, Lansing; G. W. Petrie, Cadillac; W. P. Porter, East Jordan; W. D. Van Schaack, Detroit; Mrs. S. C. Savidge, Springlake; C. C. Vaughn, St. Johns; P. E. Walsworth, St. Johns; James R. Wylie, Grand Rapids.

The Register of Students

THE COLLEGE

SENIORS

Margaret Bertine Allen..................................Alma
Latin and German

Paul Henry Austin......................................Monroe
Mathematics and Chemistry

Mary Blaisdell..Alma
French and Philosophy

Maurice Cole..Paw Paw
History and Economics

Sidney Perry Cook.......................................Alma
History and Economics

Gladys Noll Dershem..........................Chicago, Ill.
History and German

Albert James Esselstyn...............................Lansing
Chemistry and Biology

Theodore Gates.....................................Vestaburg
History and English

Clarence R. Goodrich..........................Grand Rapids
Mathematics and Chemistry

Esther Halverson..................................Newberry
Latin and German

Lula Mae Huber.......................................Stanton
History and German

Harry Donovan Jackson...................................Alma
Mathematics and Chemistry

Milton Jackson..Alma
Mathematics and Chemistry

Arden S. Johnson...................................Hilliards
Mathematics and Chemistry

Ilma E. Johnson................................Grand Ledge
Chemistry, Biology

Joseph Leroy Kennedy..........................Chicago, Ill.
History and Economics

Bryson A. McCloy..................................Fairgrove
History and Economics

Beulah Lena Parr.................................Alma
English and History
Ralph Edgar Peacock..........................Marseilles, O.
Chemistry and Biology
Arthur Hartt Simenton............................Marlette
History and Economics
Esther Smith.......................................Alma
History and English
Ethel Grace Thompson...........................Caseville
History and English
Addison Vincent Wilson..............................Alma
History and English
Alger H. Wood......................................Alma
History and Economics

JUNIORS

Oscar M. Anderson.................................Omena
History and Economics
Edward Bahlke.......................................Alma
History and Economics
Alonzo Wallace Beshgetoor...........................Alma
Chemistry and Mathematics
Thomas C. Blaisdell, Jr.............................Alma
History and Economics
Marcia Ann Carl...................................Howell
English and German
Ralph Chisholm..............................Breckenridge
History and Economics
Auda Cleo Gill...................................Pellston
Mathematics and History
Otha McCracken.....................................Alden
English and German
Montie McFarlane.................................Linwood
Mathematics and Chemistry
Arthur John McIntyre................................Alma
History and Economics
T. Lucille McQuade................................Detroit
History and English
Stephen Sutherland Nesbit.........................Twining
History and Economics
Alfred Garlock Papworth...........................Howell
Chemistry and Biology

Marion Louise Parsons........................Charlevoix
English and German

Thomas Arnold Robinson..............................Alma
History and Economics

Roy J. Shiflet....................................Watervliet
History and Economics

Verne Levi Van Duzen......................Breckenridge
Mathematics and Biology

Bertha Delena Williams.........................Bad Axe
Kindergarten

SOPHOMORES

Irene Lucille Baker...............................Gladstone
Martha Adelaide Ballou..........................Stanton
Ray V. Beshgetoor....................................Alma
Rudolph Alvin Beyer..............................Detroit
Ruth H. Browning........................Iron Mountain
Annawave Coleman...............................Hastings
Amoretta M. DeWitt........................Spring Lake
Jessie Jane Duncanson........................Cass City
Helen B. Eames...................................Muskegon
Isadore Friedman..............................Tawas City
Aura Mae Funnell........................Norwalk, Ohio
Jane Stuart Green..................................Saginaw
Clarence J. Halteman.............................St. Louis
Flossy B. Hoover........................Harbor Springs
Bernice Myrtle Ireland.....................Grand Ledge
Gladys Kelley...............................Harbor Beach
Robert Eugene McAllister..................Oak Park, Ill.
Pauline Markham...............................Charlevoix
Mary Ellen Mitchell.............................Port Huron
Eloise Muncie......................................Olney, Ill.
Vera Parker......................................Traverse City
Marie Pegg....................................Iron Mountain
Wilhelmine Augusta Ritter................New York City
Chester Roy Robinson.............................Plainwell
Margaret Robinson...........................Grand Haven
Mary Elizabeth Rubert...............................Howell
Errol Ruddock Stafford............................Cadillac
Harry Wilfred Staver...............................Saginaw
Louise Thayer.....................................Northville
Beulah Elizabeth Thompson..............Harbor Springs
Elfleda Udelle..Alma
Frida Volz...Saginaw
Irene Warner..Sandusky

Edna Ward	Charlevoix
Norma Irene Wight	Yale
Margaret Alida Yerkes	Northville

FRESHMEN

Eva L. Ackley	Howell
Helen Mildred Allen	Alma
Laura Amsbury	Alma
Emberson Robert Ardis	McBain
Alvin O. Austin	Monroe
Ernest Edgar Bacon	Alma
Helen Charlotte Baker	Bay City
Olive M. Batie	Bad Axe
Claud W. Bean	Bay City
Efford Beverly	Alma
Edward Frank Bittner	Alma
Helen Bradfield	Yale
Christina E. Bromley	Mecosta
Bess C. Brown	Farwell
Edna Campbell	Alma
Faye G. Carpenter	Wixom
Paul R. Cash	Alma
Hobart J. Chapel	Parma
Harold C. Christiansen	Rapid City
Lynn H. Clark	Centerville
Howard T. Cole	Reed City
Earl H. Coleman	Hastings
Ermah A. Colling	Mayville
Zella M. Comer	Deming, N. M.
Marion Elsie Cooper	Lansing
Winnie Cooper	Alma
Erma Cotey	Cadillac
Elizabeth L. Creaser	Alma
Elmer John Cresswell	St. Louis
Clifford Nelson Cummings	Alma
Robert B. Dancer	Stockbridge
Verna F. Deline	St. Louis
Chas. D. Depew	Caro
Mary De Roussie	Detroit
Lillian Des Jardins	Lapeer
M. Marie Doane	Alma
Walter O. Dow	Boyne City
George H. Doyle	Marlette
Ruth Dunham	Alma
Ruby M. Dunn	Reed City
Hobart M. Edwards	Harrisville
Jean M. Eggleston	Parma

Violet G. Elliot	Elkton
Lula E. Ellis	Alma
George Leland Fitch	Marlette
Gordon M. French	Petoskey
Russell Gaffney	Alma
Fletcher T. Gallagher	Bay City
William H. Gallagher	Bay City
Emerald J. Garlock	Wacousta
Tacitus P. Gies	Reese
Herbert Hall	Alma
Elmer J. Hanna	St. Louis
Flora E. Hatch	Detroit
Lee D. Harris	Hudson
Beryl Hazelton	Imlay City
Vera H. Henry	St. Louis
Ward Hodge	Breckenridge
Ruth Hooper	Alma
Kenneth Hoyt	Caro
Clarence P. Jessup	Alma
Neva M. Johnson	Saginaw
Ed. Guy Johnston	Yale
Chas. B. Kennedy	Chicago, Ill.
Ava Klinefelter	Marion, Ohio
Harold H. Lampman	Shepherd
Newell E. Lavely	Bay City
Edith E. Layer	Unionville
R. Lucille Lott	Holt
John Ezra Ludwick	Dimondale
J. A. Bannerman MacAuley	Calumet
Ross McAllister	Harbor Beach
Paul L. McKee	Coleman
Ernest McKenzie	Harbor Beach
J. Jerrold Marks	Oscoda
Linton Melvin	De Tour
Eva M. Merrill	Breckenridge
Kenneth Merriman	Imlay City
Leo Miller	Hudson
Merritt B. Miller	Alma
Guy E. Milligan	Breckenridge
Helen K. Mitchell	Harrisville
William J. Murphy	Alma
Gladys Myers	Owosso
Robert B. Notestein	Alma
Francis T. Patterson	Reed City
William H. Piepenburg	Detroit
Edna M. Pino	Ithaca
Laura E. Rather	Alma

Vera G. Reid	Lapeer
Irene R. Remington	Norwalk, O.
Verne R. Richards	East Jordan
Esther B. Ricketts	Pana, Ill.
Dick H. Rockwell	Alma
Ellie ter Haar Romeny	St. Louis
Velma Leo Ross	Beaverton
Hazel M. Rubert	Howell
Eliud Sanchez	Pajarito, N. M.
Harvey E. Sayles	Yale
J. Ross Schermerhorn	Bad Axe
Gardner S. Schultz	Middleton
Emily Slocum	Mt. Clemens
Donald B. Smith	Alma
Ethel M. Smith	Alma
Mark Loomis Spinney	Alma
Clifford C. Steggall	Bay City
Reid Stimpson	Northville
Mary J. Stitt	Alma
Frank W. Stockle	Bay City
Carl M. Street	Wheeler
Wm. Floyd Thomas	Ithaca
Hazel Tuck	Marlette
Cecil C. Van Natter	Traverse City
Melvin R. Vender	Bad Axe
Martha D. Volz	Saginaw
Dwight von Thurn	St. Louis
John C. Vorwerck	Saginaw
Emma Wales	Detroit
Jennie Waterman	East Jordan
Gladys C. Watkins	Milford
John H. Wax	Detroit
Ruth Weston	Sault Ste. Marie
Marion E. Westover	Cadillac
E. Frank Whittington	East Jordan
Fred B. Wight	Yale
Kirby L. Wilkins	Paw Paw
Ethel G. Zipp	Bay Shore

IRREGULARS

Besvin Anderson	Elk Rapids
Gladys Hatt	Alma
Jean V. Hatch	Cleveland, O.
Lewis J. Sarvis	Detroit
Katherine H. Waninger	Detroit
J. Courtland Wilson	Milford

STUDENTS IN SUMMER SESSION
1914

Mary Blaisdell	Alma
Mrs. Kate C. Blaisdell	Alma
Marcia A. Carl	Howell
Albert J. Esselstyn	Lansing
Theodore Gates	Vestaburg
Lula Huber	Stanton
Milton Jackson	Alma
Ilma E. Johnson	Grand Ledge
Roy S. Keefer	Alma
Elizabeth King	Alma
Fannie King	Alma
John S. Lee	Rimersburg, Pa.
Elsa Mess	Birmingham
Ralph E. Peacock	Marseilles, O.
Meryl L. Seaver	Pompeii
Esther Smith	Alma
Ethel G. Thompson	Caseville
Katherine H. Waninger	Detroit

THE CONSERVATORY OF MUSIC

VOICE

Oscar M. Anderson	Omena
Lena Beverly	Alma
Bess Brown	Farwell
Lula Blackman	Wheeler
C. Bope Butler	Bad Axe
Ralph Chisholm	Breckinridge
Lynn H. Clark	Centerville
Effie M. Curtis	Edmore
E. Helen Doane	Alma
Reaul H. Eagon	Alma
Jean Eggleston	Parma
Marguerita L. Gill	Central Lake
Velma Gilmore	Big Rapids
Lillian Goll	Breckenridge
Minna L. Greer	Alma
H. Handley	Alma
Blanche Healy	Bad Axe
Ward Hodge	Breckenridge
Lena C. Johnson	Alma

Pauline Markham	Charlevoix
Mrs. I. H. McKinney	Alma
Merle M. McKay	Brown City
Mrs. Floyd A. Maxwell	Alma
Francis Patterson	Reed City
Mary Rose	Ashley
Donald Smith	Alma
Iva Spaulding	Alma
Thelma Stevens	Breckenridge
Louise Thayer	Northville
Linnie Udelle	St. Louis
Jennie Waterman	East Jordan
John Wax	Detroit
Leota Wiles	Sumner
Lorna Woodruff	DeWitt

PIANO

Adelaide Ballou	Stanton
Eva Barnes	Charlotte
Olive Batie	Bad Axe
Donald C. Blaisdell	Alma
Thomas C. Blaisdell, Jr	Alma
Christine Bromley	Mecosta
Ralph Chisholm	Breckenridge
Zella Comer	Deming, N. M.
Effie M. Curtis	Edmore
Marion Cooper	Lansing
Mary De Roussie	Detroit
Amoretta DeWitt	Spring Lake
Marie Doane	Alma
Bessie Gilbert	St. Louis
Beryl Hazelton	Imlay City
Blanche Healy	Bad Axe
Emma Hewitt	Reed City
Edith Hooper	Alma
Flossy Hoover	Harbor Springs
Merle M. McKay	Brown City
Paul L. McKee	Coleman
Eva Merrill	Breckenridge
Helen K. Mitchell	Harrisville
Ethel Palmer	North Star
Marie Pegg	Iron Mountain
Violette Rather	Alma
Ethel M. Rhynard	Perrinton
Margaret Robinson	Grand Haven
Mary Rose	Ashley

Velma Ross	Beaverton
Louise Thayer	Northville
Hazel Tuck	Marlette
Emma Wales	Detroit
Edna Ward	Charlevoix
Irene Warner	Sandusky
Leota Wiles	Sumner
Margaret Yerkes	Northville
Lucille Hodge	Breckenridge

VIOLIN

Lisle Besore	Alma
Efford Beverly	Alma
Laretta B. Coleman	Alma
Earl Cross	Alma
Joseph Ford	Alma
Elise Lindner	Alma
J. Ross Schermerhorn	Bad Axe
Forest Smith	Alma
Herman I. Porter Smith	Alma

EXTENSION WORK

COLLEGE SUBJECTS

Cass Chase	Detroit
Hurd Allyn Drake	Napoleon, Ohio
Floyd Ferguson	Saginaw
Mrs. Mahala R. Inglis	Cassopolis
T. E. Johnson	Coldwater
J. S. Lee	Rimersburg, Pa.
C. G. Milner	Onaway
Marjorie Porter	Zanesville

PIANO

Mrs. Clyde Daniels	Ithaca
Annie Dean	Ithaca
Iva Newark	Ithaca
Hazel Searl	Ithaca

VIOLIN

Alta Ayling	Mt. Pleasant
Armanda Burch	Mt. Pleasant
Kenneth Burdick	Mt. Pleasant
Florence Campbell	Mt. Pleasant
Paul Decker	Mt. Pleasant
Leora Emerick	Mt. Pleasant

Lovell Fuller..............................Mt. Pleasant
Robert B. Gorham............................Mt. Pleasant
Agnes D. F. Hanson..............................Grayling
Elmer A. Linton.............................Mt. Pleasant
Arabelle Mayhew...............................Greenville
Anita Stilson...............................Mt. Pleasant
Lucille Weidman.............................Mt. Pleasant

SUMMARY

The College	211
The Summer Session, 1914	18
The Conservatory of Music	74
The College Extension Work	25
	328
The names counted twice	43
The total attendance for the year	285

LIST OF ALUMNI

CLASS OF 1891

Bernice Hunting, Missionary...................Tripoli Syria
Temporary address......541 Lexington Ave., New York
Rev. Alfred F. Pratt, Presbyterian Church....Batavia, N. Y.
Bertha May Trask, Teacher.1120 Gratiot Ave., Saginaw, W. S.

CLASS OF 1892

Mrs. H. P. Streng, (Mary Cook)..512 S. Park St., Kalamazoo
Ralph C. Ely, Attorney.......................Deming, N. M.
Francis W. Eply, State Normal School....Bellingham, Wash.
Mrs. J. C. Hubbard, (Katherine Slater)...................
.............................508 E. Ann St., Ann Arbor

CLASS OF 1893

Rev. Charles E. Blanchard, Presbyterian Church....Marshall
Mary C. Hill.............................613 Oak St., Flint
Mrs. Alfred F. Waldo, (Josephine Hodges)..................
........................Scottswood Road, Riverside, Ill.
Mary Olive Hunting.......................Indianola, Iowa
Mrs. F. D. Sherman, (Bessie McLean).....................
..................111 Fisher Ave., White Plains, N. Y.

James E. Mitchell, Prof. History and Pol. Science.....Alma
*Mrs. James E. Mitchell, (Lucy Plum).
*Herrick J. Ransom.

CLASS OF 1894

Mrs. L. V. Cram, (Esther Marsh), 407 E. Kearsley St., Flint
Frank L. Marsh, Electrical Engineer..........................331 Crescent St., Grand Rapids

CLASS OF 1895

Rev. Ralph T. Flewelling, M. E. Church...Leominster, Mass.
Arthur LeRoy Toner, Salesman......................................821 S. Figueroa, Los Angeles, Cal.
A. B. Wight, Principal Talcott School, Chicago..............
Home..............316 N. Schoville Ave., Oak Park, Ill.

CLASS OF 1896

Mrs. J. A. McKee, (Clara Booth).........Westminster, Cal.
Rev. Lewis S. Brooke, Presbyterian Church..........Howell
Fred Fullerton, Life Insurance......................Jackson
William A. Howe, Supt. Schools........Ocean Park, Wash.
Anna Girmus.......................521 Thayer St., Saginaw
Winifred F. Heston, M. D..................................Amer. Mission Hospital, Sargodha, Punjab, India
Elizabeth Jones, Teacher.....................Roseville, Cal.
Edward C. Marsh, Vice-Pres. McMillan Co., 64-66 Fifth Ave., New York; Home..............39½ Washington Square
Joseph T. Northon, Supt. Schools.................Marlette
*Richard Sidebotham.

CLASS OF 1897

Kendall P. Brooks, Prof. Physics, Normal School, Mt. Pleasant
Mrs. K. P. Brooks, (Gratia Dunning)...........Mt. Pleasant
Letta B. Burns, Teachers' Training College, Jamaica, New York, N. Y.; Home..............133 Hewes St., Brooklyn
Rev. Jacob Klasse, Presbyterian Church......Clarence, N. Y.
A. J. Van Page, Western Sales Mgr., Passaic Metal Ware Co., People's Gas Bldg., Chicago; Home, 437 S. 6th St., La Grange.

CLASS OF 1898

Rev. Birdsey S. Bates, Knox Presby. Church, St. Paul, Minn.
Mrs. B. S. Bates, (Frances Adams)...1716 Van Buren St., St. Paul, Minn.
Paul H. Bruske, Contest Mgr., Maxwell Motor Car Co.. Detroit

---

*Deceased.

James I. Crane, Supt. Schools..................Krupp, Wash.
Rev. Sherman L. Divine, Presby. Church....Bozeman, Mont.
Elmer Eckard, M. D..............................Peoria, Ill.
Rev. Maurice Grigsby, Presby. Church..............Hastings
Frank Knox, Editor.......................Manchester, N. H.
Rev. William H. Long, Presby. Church.............Brooklyn
Franklin Warren McCabe, Insurance.........................
....................1147 Gordon Ave., Los Angeles, Cal.
Mrs. W. E. Myler, (Mertha Peters)..........................
......................153 Douglas St., Los Angeles, Cal.
Rev. Charles Ernest Scott, Missionary, Tsingtau, Shantung, China; Temporary Address, 240 Linden St., Holyoke, Mass.
Rev. John B. Stevens, Missionary.............Juneau, Alaska

CLASS OF 1899

Mrs. J. T. Clark, (Maud Bishop)............Harbor Springs
*Frances Thorne Booth.
Rev. Weston T. Johnson, Missionary..........Sapporo, Japan
Rev. Harry E. Porter, Brighton Presby. Church, Zanesville, O.

CLASS OF 1900

Jacob C. Foote, Prof. of Eng., State Nor. Sch., Bloomsburg, Pa.
Rev. George A. Hill, Drexel Park Presbyterian Church.....
.....................6339 Hermitage Ave., Chicago, Ill.
David Magaw, Merchant..........................Kent City
Mrs. Paul H. Bruske, (Mary W. Plum).....................
............................195 Palister Ave., Detroit
George B. Randels, Prof. Pedagogy, Alma College......Alma

CLASS OF 1901

Henry P. Bush, Asst. Bank Cashier...................Caro
Mrs. J. W. Fairman, (Carolyn A. Butler)...................
..................656 W. Marquette Road, Chicago, Ill.
Mrs. A. W. Brighton, (Winifred F. Carl)...................
..........................154 Biddle Ave., Wyandotte
Rev. Donald S. Carmichael, Presby. Church........Bad Axe
*Mrs. Fred H. Jones, (Annabelle Chisholm).
Amos R. Eastman, Scientific Farming...............Howell
Mrs. Geo. C. Lorenz, (Daisy L. Hard)........Colville, Wash.
Harry E. Reed, H. S. Teacher. 135 E. Thornton St., Akron, O.
Watson B. Robinson, Attorney..60 Wall St., New York, N. Y.
Home..............................645 W. End Ave.
Rev. C. W. Sidebotham, Grace Presby. Church..............
.................................Milwaukee, Wis.
Winifred G. Trapp, Teacher.........................Alma

*Deceased.

CLASS OF 1902

Wesley Bradfield, Museum Asst., Museum of New Mexico and School of Am. Archæology........Santa Fé, N. M.
William E. Brock............27 Cedar St., New York, N. Y.
John N. Booth, Teacher Westport High School...Kansas City, Mo.
Rev. William J. Ewing, Presbytrian Church......Villisca, Ia.
Egbert E. Fell, Supt. Schools.......................Holland
Agnes Hope....................................St. Johns
Alice Rebecca Marsh, General Secretary, Y. W. C. A., Detroit

CLASS OF 1903

Lucius S. Bagley, Banker......................Morris, Okla.
William R. Baker, H. S. Teacher............Davenport, Ia.
Rev. John Y. Broek, Dutch Ref. Church......Plainfield, N. J.
Mrs. E. W. Ireland, (Margaret Fitzpatrick)......................................491 Connecticut St., Buffalo, N. Y.
*Pearl Fuller.
Mrs. E. C. Gorrell, (Pauline Hazelton)......Winamac, Ind.
*Arthur J. Helmer.
Sadie Messenger...................................Alma
Mrs. H. T. Baker, (Myrtle I. Nicholson).........Manistique
Rev. Hugh N. Ronald, Presby. Church......Thorntown, Ind.
John S. Shiner, Burroughs Ad. Machine Co., Knoxville, Tenn.
Mrs. C. W. Sidebotham, (Essy Hooper)...885 Mound St., Milwaukee, Wis.
Henry H. Soule, Contractor............................Alma
Laura B. Soule, Teacher...............................Alma
Margaret K. Taylor, Instr. Univ. Chicago...5701 Kenwood, Chicago
T. George Timby, Chemist, Valley Chem. Co.......Utica, Ill.
Alice. B. Thompson, Teacher, 402 W. 52. St., Los Angeles, Cal.
Wallace F. Webber, Paymaster Cadillac Motor Car Co..... Home......................247 Pallister Ave., Detroit

CLASS OF 1904

Rev. J. Wirt Dunning, Presby. Church......Portsmouth, O.
Frank R. Hurst, Life Insurance......80 Griswold St., Detroit
Mrs. F. R. Hurst, (Bertha Higbee)..200 Clairmont Ave., Detroit
Rev. James L. McBride, Missionary.........Cordova, Alaska
Leora M. Morton, Teacher..........................Howell
Mrs. G. B. Randels, (Elizabeth Schmidt)..............Alma
Mrs. H. N. Ronald, (Kate Bair)...........Thorntown, Ind.
Martin J. Stormzand, Teacher...............Davenport, Ia.

*Deceased.

Mrs. A. B. Hart, (Nellie Stringham)........................
..............................5025 Baltimore Ave., Phila.
Raymond C. Swigart, Prin. High School..............Albion
*Herbert A. Wilcox.
William Winton, Asst. Supt. Agencies, Mut. Ben. Lf. Ins. Co., 750 Broad St., Newark, N. J.; Home 7 Garden St., Montclair.

CLASS OF 1905

Levi J. Butler, Rancher.............Irma Alta, Alberta, Can.
*Orson Charles Chapman.
Mrs. William E. Brown, (Carolyn Hastings).......St. Louis
Rev. David A. Johnson, Cent. Presby. Church, Rock Island, Ill.
Rev. J. N. King, Presby. Church............Uhrichsville, O.
Mrs. N. B. Stoddard, (Leola Lauderbach)..Butte Falls, Ore.
Louise Townley Strange, Gen. Sec. Y. W. C. A.......Jackson
Rev. Jerome E. Webber, Presby. Church..........Northville

CLASS OF 1906

William Skinner Cooper, Instr. Stanford Univ., Palo Alto, Cal.
Lilian Crandell, Teacher........................South Lyons
Rev. Harold G. Gaunt, Presby. Church....East Liverpool, O.
Elizabeth Ann Hunt, Teacher......247 Pallister Ave., Detroit
Beryl M. Koepfgen, Prin. High School............St. Charles
Howard Potter, County Commissioner Schools........Ithaca
Rev. Fred Judson Soule, Settlement Worker, Warner House,
.........................918 Russell St., Baltimore, Md.

CLASS OF 1907

Rev. Paul J. Allured, Missionary, Lien Chow, *via* Canton, China
Gretta Bagley...Alma
Erle H. Casterlin, Supt. Schools..............Salmon, Idaho
Mrs. Sherwood Hinds, (Mayme Hayes)....Fort Wayne, Ind.
Mrs. H. G. Gaunt, (Susie L. Hawes)......East Liverpool, O.
Minnie Kinnaird.....................................Cass City
Olive J. Smith, H. S. Teacher..........................Alma

CLASS OF 1908

Harry J. Bastone, Instr. in Chemistry................Calumet
Francis W. Cobb, Teacher, Bkpg. & Accountancy, Broadway High School, ...Seattle, Wash.
Edith L. Cook, Librarian, E. Tech. High School, Cleveland, O. Home.............................12510 Mayfield Road
Helen B. Cook, Librarian, Alma College................Alma
Robert Craig, Jr., Forester......................Eugene, Ore.
Harry W. Helmer, Athletic D't'r, Normal School, Mt. Pleasant

*Deceased.

Mrs. S. B. Hill, (Elvena Hoover)................Kawkawlin
Rev. George P. Horst, Beacon Presby. Church..............
..................2323 E. Cumberland St., Philadelphia
Rev. Herman N. Morse, Room 1006, 156 5th Ave., New York
Gladys Nelson, Teacher in Mission School......Sitka, Alaska
Ruth O. Pierson, Bacteriologist and Sec'y Coöp. Brds. of
Health...........................Wellesley Hills, Mass.
Ralph E. Raycraft, Supt. Schools......................Wayne
Lester W. Sharp, Instr. Cornell Univ...........Ithaca, N. Y.
George D. Sutton, Medic., U. of M., Ann Arbor; Home, Caro

CLASS OF 1909

Mrs. Robt. S. Tate, (Grace Brown)........................
........................2713 Cleveland St., Dallas, Tex.
Byron J. Chapel, H. S. Ath. D't'r................Aurora, Ill.
Maynard A. Cook, Consulting Engineer......Madison, Wis.
Harry A. Craig, Supt. Schools....................Charlevoix
Mrs. E. B. McDonald, (Lois Fraker)..422 W. 57th St., N. Y.
Mrs. F. C. Dickinson, (Hazel Fraser)................Tecumseh
Rev. Mark L. Marshall, Presby. Church................Ionia
Theodore Nelson, Austin High School Home................
......................5925 W. Ohio St., Austin, Chicago
Mrs. F. W. Cobb, (Stella I. Pollard)........................
........................118 E. 56th St., Seattle, Wash.
Emma M. Swigart, Grad. Student, U. of M., Ann Arbor;
Home ....Alma
Harlow O. Whittemore, Instr. Landscape Design, U. of M....
....Ann Arbor

CLASS OF 1910

Hazel S. Blair............................Sault Saint Marie
Mrs. R. L. Waring, (Elsie E. Bond)........................
..........................1526 Hamilton Blvd., Detroit
Royal R. Campbell, Ath. D't'r, Knox College, Galesburg, Ill.
Cass Chase, Teacher....................870 18th St., Detroit
Myrtle Creaser, H. S. Teacher....................Cheboygan
Alexander Duncanson, Principal High School, Mt. Pleasant
Stanley A. Graves, Traveling Auditor, M. C. R. R..........
Home.........................131 Pacific Ave., Detroit
Frank B. McComb, Physical D't'r, Y. M. C. A., Ashland, Ky.
Mrs. S. H. Cass, (Agnes R. Redman).......................
.........................59 Rio Chico Way, Chico, Cal.

CLASS OF 1911

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Theron E. Chapel, Supt. Schools......................Parma
Rev. Hurd A. Drake, Presby. Church...........Napoleon, O.

Mrs. H. C. Judge, (Jean I. Dykes)..........................661 Berlin Ave., Muncie, Ind.
Kathleen I. Gillard, H. S. Teacher....................Alpena
Selma O. Hahn..................Y. W. C. A. Sec'y, Detroit
Mrs. Robt. Von Thurn, (Florence L. Hood), Coleraine, Minn.
Pearl S. Huber, Teacher, 122 W. Broadway, Council Bluffs, Ia.
Leslie P. Kefgen, Supt. Schools...................Newberry
Adelbert H. Lindley, Attorney, 1026-30 Dime Bank Bldg..... Detroit
Bessie F. Seaver, H. S. Teacher................Grand Ledge
Isabel Stevens, Grad. Student, State Univ....Berkeley, Cal.
Rev. Robert Von Thurn, Presby. Church....Coleraine, Minn.

CLASS OF 1912

Louanna Dorothy Baker, H. S. Teacher............Midland
Eleanor Bittner, H. S. Teacher.........................Alma
Mrs. W. L. Frost, (Vinnie C. Booth), 544 Belden Ave., Chicago
Laura Alice Brown, H. S. Teacher............Traverse City
Mrs. John Becker, (Loretta B. Clum)..................Alma
Robert H. Cook, Life Insurance............Glens Falls, N. Y.
Foster Allen Fraker, Prin. High School..............Lapeer
Mrs. L. W. Lauderbach, (Gladys L. Gorton)...Grand Marais
Ruth E. Hovey, State Normal School..............Ypsilanti
Robert F. Hume, Chemist......210 S. 4th St., DuQuesne, Pa.
Leon W. Lauderbach, Prin. High School......Grand Marais
Hattie Belle Mills, H. S. Teacher...................Mason
Mrs. E. W. Osgerby, (Carrie E. Neilson), Clarksburg, W. Va.
Gail Enid Peacock, Prin. High School................Evart
Rev. William Y. Pohly, Methodist Church........Potterville
Mrs. E. Armstrong, (Carrie L. Rowland).......................................653 N. Mich. Ave., Saginaw, W. S.
Mrs. Anna Laura Sebring, Prin. High School..........Elkton
Ernest William Sebring, Supt. Schools...............Elkton

CLASS OF 1913

Margaret Pollock Boag, H. S. Teacher.............Tecumseh
George J. Brilmyer, Instr. Catholic Univ. of America..........................1217 Lawrence St., Washington, D. C.
Marion Beryl Broderick........309 W. Grand Blvd., Detroit
Susie L. Brown, H. S. Teacher.......................Martin
Andrew Clifford Edgerton, H. S. Teacher..........Cass City
William A. Ewing, Prin. High School............Charlevoix
Wade L. Frost, McCormick Theo. Sem..............Chicago
Clara Elizabeth Hanel, Prin. High School..........Croswell
Marion Easter Hartness, Kindergarten Teacher....Alton, Ia.
Emily Maude Hooper, H. S. Teacher...........Carson City

William Allen Hooper, Hardware........Grouard, Alb., Can.
Leon A. Kolvoord, Real Estate.......................Allegan
J. L. D. B. Landon, Auburn Theo. Sem........Auburn, N. Y.
Bernice Edna Latson, H. S. Teacher..................Byron
Oral M. Misenar, Prin. High School..............Newberry
Chalmers A. Monteith, Western Elec. Co..................
..............................3210 Arthington St., Chicago
Marguerite Rachel O'Neill, H. S. Teacher..........Standish
Ruth Marian Robbins, H. S. Teacher................Lapeer
Mrs. F. A. Fraker, (Marian Rounsifer)..............Lapeer
Claude Webster Satterlee, H. S. Teacher........Wyandotte
Della Struthers, H. S. Teacher......................Onaway
Edward Archibald Thompson, Grad. Student Yale Univ....
....................................New Haven, Conn.
Rex E. VanDuzen, Medic., U. of M., 603 Hall St., Ann Arbor;
Home ....Breckenridge
Lester Von Thurn, Ins......522 Walnut St., Philadelphia, Pa.
Bernice Walker, Teacher............................Romeo

CLASS OF 1914

Emily Eleanor Beach, H. S. Teacher, 215 W. 13th St., Holland
Ruth Mary Cook, H. S. Teacher.....................Croswell
Celia Creaser, Teacher..............................Belding
Rose Carol Gray, Prin. School..................Breckenridge
Theodore Shirley Higbee, Chemist.........................
..................152 Buena Vista Ave., Yonkers, N. Y.
Bertha Belle Hubbell, H. S. Teacher, 215 W. 13th St., Holland
Milo Arthur V. Hogan, Auburn Theo. Sem....Auburn, N. Y.
Carroll C. Hyde, Medic., U. of M., Ann Arbor; Home, Addison
Fred Samuel Johnson...............................Cadillac
Alice Virginia Kennedy, H. S. Teacher..........Roscommon
Archie Ruben Maybee, H. S. Teacher...........Charlevoix
F. Roy Phillips, Gymnasium and Playgrounds.............
........................60 Oak St., Grosse Point Farms
Verne E. Rogers, H. S. Teacher....................Hastings
Meryl Lora Seaver, H. S. Teacher................Chesaning
Walter Albert Vogt, H. S. Teacher.............Charlevoix
Faith Mabel Welton, Grad. Student, U. of M., Ann Arbor;
Home..................127 Lafayette Ave., Grand Rapids

FORM OF BEQUEST

"Item—I hereby give, devise, and bequeath to Alma College, a corporation organized and existing under the laws of the State of Michigan, of Alma, Gratiot County, Michigan, the sum of........................Dollars, to it absolutely."

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Address inquiries of all kinds, except those noted below, to The President, Alma College, Alma, Mich.

High school principals will send entrance blanks to The Registrar, Alma College, Alma, Mich. Requests for credits should also be addressed to the Registrar.

Send checks for room deposits, tuition, board, etc., to The Secretary, Alma College, Alma, Mich. Make checks payable to Alma College.

Alma College Bulletin

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July 16, 1894.

"Alma, a College for Character"

1915-1916

IN NOMINE DEI, AMEN

"Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

—Synod of Michigan, Grand Rapids, Oct. 14, 1886.

ALMA
COLLEGE

UNIVERSITY OF ILLINOIS LIBRARY
MAY - 2 1916

CATALOG
1915-1916

Announcements
1916-1917

ALMA, MICHIGAN

Calendar

	1916		
March	24	Friday	Second Term ends, 12 noon.
April	4	Tuesday	Third Term begins, 8 a. m.
June	5	Monday	Final Examinations begin.
June	11	Sunday	Farewell Communion, 10 a. m.
			Address before Christian Ass'ns, 3 p. m.
			Baccalaureate Address, 7:30 p. m.
June	12	Monday	Class Day.
			Class Day Exercises, 8 p. m.
June	13	Tuesday	Alumni Day.
			Meeting of Board of Trustees, 10 a. m.
			Meeting of Alumni Association, 1 p. m.
			Senior Promenade, 8 p. m.
			President's Reception, 9 to 11 p. m.
June	14	Wednesday	Commencement Day.
			Commencement Exercises, 10 a. m.
			Commencement Luncheon, 1 p. m.
		SUMMER VACATION	
July	17-23		Training School for Christian Workers.
Sept.	18	Monday	Matriculation for Freshmen.
Sept.	19	Tuesday	Matriculation for other Students.
Sept.	20	Wednesday	First Term begins, 9 a. m.
			Opening Address.
Oct.	14	Thursday	Founders' Day.
Nov.	22	Wednesday	Thanksgiving Recess begins, 12 noon.
Nov.	27	Monday	Thanksgiving Recess ends 1:15 p.m.
Dec.	20	Wednesday	First Term ends, 12 noon.
		WINTER VACATION	
	1917		
Jan.	2	Tuesday	Second Terms begins, 8 a. m.
Jan.	16	Tuesday	Mid-year Meeting of Board of Trustees.
Jan.	22	Monday	Semi-annual Examinations begin.
Jan.	26	Friday	First Semester ends.
Jan.	29	Monday	Second Semester begins.
Feb.	1	Thursday	Day of Prayer for Colleges.
March	24	Friday	Second Term ends, 12 noon.
		SPRING VACATION	
April	3	Tuesday	Third Term begins, 8 a. m.
June	13	Wednesday	Commencement Day.

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MAY - 2 1916

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ALMA COLLEGE

Historical Sketch

LOCATION

The city of Alma, in which Alma College is located, is in Gratiot County, in almost exactly the geographical center of the lower peninsula of Michigan. It is on the Pere Marquette Railway between Grand Rapids and Saginaw, being about eighty miles from the former city and forty from the latter. It is also on the Ann Arbor Railroad, 145 miles from Toledo and eighty miles from Cadillac. Alma has no saloons, Gratiot County having been "dry" since May, 1907.

With paved and well-shaded streets, boulevard lighting, a complete sewer system, city water, electric lights, an exceptionally efficient public school system with a new high school building costing $65,000, and with numerous churches, this city of about 4,500 people has proved itself to be an unusually healthful and morally uplifting community to which parents may safely entrust their children or to which they may move for the purpose of educating their children.

HISTORY

On a Sunday evening, in 1886, the Rev. J. Ambrose Wight preached a sermon from his pulpit in the First Presbyterian Church of Bay City, in which he emphasized the need of a Christian college in central Michigan. At the close of the service, Mr. Alexander Folsom said to Dr. Wight that he was ready to give $50,000 toward the founding of such a college. On September 28, 1886, the committee of the Synod met in Alma and received the formal offer of this gift. At the same time Mr. A. W. Wright offered, for the town, a campus on which two buildings for educational purposes had already been erected and furnished, the whole valued at $40,000. Other friends offered to provide for professorships for five years, to add to the endowment, to give toward current expenses, and to provide a library.

The committee made its report to the Synod in the Westminster Presbyterian Church at Grand Rapids on October 14, 1886, with the result that the Synod "Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

The doors of Alma College were opened to students on September 12, 1887. Thirty-four young men and young women registered the first day. The total attendance during the year was ninety-five.

The first president of Alma College was the Rev. George F. Hunting, D. D., who served until April 20, 1891. On June 16, 1891, his successor, the Rev. August F. Bruske, was inaugurated and served in the office until July, 1912. He was succeeded by Thomas C. Blaisdell, Ph. D., whose term of service ended August 20, 1915, and the president-elect, Harry Means Crooks, entered upon his duties in November, 1915.

In the summer of 1888 a heating plant was erected; in 1889 a library building was completed; in 1895 the gymnasium was completed; the Hood Museum was dedicated in June, 1900. Wright Hall was completed and opened its doors as the home for young women in 1902. The Davis Athletic Field was graded and enclosed in 1902, while its beautiful entrance gate was erected in

1912. During the past three years the campus has been greatly beautified by a systematic planting of trees and shrubs, while Pioneer Hall has been thoroly renovated at a large expense and other needed improvements have been made.

Alma College has a campus of thirty-six acres. This with the buildings is valued at $175,000. The college has an endowment of about $400,000.

The material progress of Alma has been made possible by a host of friends, foremost among whom will always be mentioned Mr. Ammi W. Wright. His total gifts in additions to the endowment, in Wright Hall, in library funds, and in the payment of current expenses aggregate about $400,000. The passing of Mr. Wright on May 5, 1912, was mourned by every friend of the College, and particularly by the thousands of young people who have been blessed in their educational privileges by his liberality.

Admission to the College

REQUIREMENTS FOR ADMISSION

Each applicant for admission must satisfy the college officials that he is of good moral character. If coming from another college, he must bring a letter of honorable dismissal.

Admission is gained by (1) certificate, or (2) examination.

1. Recommended graduates of accredited high schools are admitted unconditionally if they present at least three units in English and Literature, two units in a foreign language, one unit in Algebra, one in Geometry, and one in Science. The remainder of the fifteen required units may include any of the subjects customarily offered in accredited high schools, except that not over three units of vocational work will be accepted. A unit means five recitations each week for a school year, totaling not less than one hundred twenty, sixty-minute periods in the clear. Laboratory, drawing, or shop periods not less than two hours in length are counted as equivalent to one recitation period.

Graduates of accredited high schools who are unable to present, in full, the required units listed above, may be admitted conditionally. However, such students will not be recommended to other colleges and will not be graduated until such additional work is completed as may be necessary to fulfil the entrance requirements.

2. Examinations are held at the opening of each college year for applicants who have completed an amount of work equivalent to fifteen units, but who are not graduates of accredited high schools. The next examination will begin Monday, September 18, 1916.

All applicants for admission are urged to present at least two units in Latin.

Students of mature years, whose preparation is irregular, are permitted to enter classes for which they are prepared. They enter as special students, and are not regarded as candidates for a degree.

Graduates of accredited high schools who expect to enter Alma should secure from the College an application blank. This should be filled out by the principal and forwarded by him to the Registrar of the College. If accepted, the applicant will receive a statement from the Registrar entitling him to admission.

ADVANCED STANDING

A student bringing from an approved college a statement showing that he has completed a regular course of at least one year, will be admitted to equal standing in this College. Graduates of approved normal schools will be given full credit for completed work, provided they bring a duly certified statement of the subjects pursued.

No advanced credit is allowed for subjects studied in high school unless at least one semester of post-graduate high school work has been done.

Advanced standing in single subjects may be obtained by examination, which may be arranged for with the head of the department concerned.

REQUIREMENTS FOR GRADUATION

The standard unit of credit used in estimating college work is one recitation period a week for one semester, or one "semester-hour." In laboratory courses a two-hour period is considered equal to a one-hour recitation period. One hundred and twenty hours and two hours in Physical Training are required for graduation, making the average requirements per semester fifteen recitation periods a week. The recitation period is fifty-five minutes in length.

The subjects comprised in the college course of instruction are arranged in groups, each of which contains (a) certain subjects required of all students; (b) two major subjects; (c) general electives, the choice of which is unrestricted.

(a) The required subjects are: English, six hours; History, six hours; Science, six to eight hours; Philosophy, six hours; Biblical Literature, eight hours; Foreign Language, twelve to sixteen hours.

(b) In order to provide for intensive work the student is required by May first of his Sophomore year to choose a group of two major subjects in which, with certain prerequisite courses, he must secure a credit of forty hours. For the list of groups offered in 1916-17 see below.

(c) The remainder of the one hundred and twenty hours may be elected from any of the following departments of instruction of the College, due regard being paid to the limitations imposed by the program of recitations:

Astronomy
Biology
Chemistry
English
French
Geology
German
Greek
History
Latin
Mathematics
Music
Oratory
Pedagogy
Philosophy
Physics
Political Economy
Religious Education

The groups from which major subjects for 1916-17 may be chosen are:

I. Greek-Latin.
II. History-Economics.

III. English-A Modern Language.
IV. English-Latin.
V. Philosophy-A Modern Language.
VI. Latin-German.
VII. Mathematics-A Laboratory Science.
VIII. Chemistry-Biology.
IX. History-English.

FRESHMAN YEAR

Required Subjects:

1. Bible 1, two hours, second semester.
2. English, three hours, each semester.
3. A foreign language (usually the one offered for entrance), four hours, each semester.

Optional Subjects:

1. Mathematics or science, three or four hours, each semester.
2. A second language, mathematics, science, or history, three or four hours, each semester.

SOPHOMORE YEAR

Required Subjects:

1. Bible 2, two hours, first semester.
2. A second year in each foreign language taken in Freshman year, four hours, each semester.

Elective Subjects:

From five to nine hours in mathematics, science, or English, choice to be made from at least two subjects.

JUNIOR AND SENIOR YEARS

In the work of these years must be included two courses in Bible, two courses in philosophy, and the work in two majors, covering from twelve to fourteen hours each. The remainder of the sixty hours may be taken in general electives.

PREPARATION FOR PROFESSIONAL COURSES

Through the group system Alma College makes provision for a liberal education, as well as special preparation for students who have in mind future professional or technical courses. Professional study is largely a matter of memory unless the student has a knowledge of those subjects which underlie and give meaning to it.

The Ministry. The student who expects to pursue advanced studies in a divinity school, should major in the Greek-Latin group, with electives in philosophy, science, and sociology. Other electives to be considered are history, literature, and public speaking. The minister familiar with the details of athletic training has a distinct advantage in dealing with boys and young men.

Law. The best professional schools make a college course a prerequisite for entrance, and all good ones require at least two years of college preparation. The student who expects to enter upon the study of law should do his major work in the History-Economics group, with electives in philosophy, mathematics, public speaking, and sociology.

Medicine. The Chemistry-Biology group offers lines of major and elective work which are especially useful in preparation for the study of medicine. These departments are well equipped with facilities for laboratory work under competent instruction and offer a wide range of courses to pre-medical students.

A special course of one year covering Biology, Chemistry, Physics, and a modern language, has been arranged for the benefit of students going to a medical college which requires only one year of college work for admission.

Engineering. Students expecting to enter engineering schools should do major work in the Mathematics-Laboratory Science group. This offers a number of courses in the mathematics, sciences, and modern languages, which form a fundamental part of all engineering courses. A special course covering the first two years of engineering work has been developed.

Teaching. The College makes special provision for the needs of prospective teachers: (a) in its pedagogical courses, (b) in its special courses in the methods of teaching specific subjects, (c) in observation work and practice teaching, and (d) in its offer of a state teacher's certificate to those who meet the requirements of the pedagogical course. The student who expects to teach a particular subject, should choose it as one of his majors.

Courses of Instruction

ASTRONOMY

DR. NOTESTEIN

The aim of this course is to give the student a general knowledge of descriptive astronomy. The instruction is based upon the use of a text-book, supplemented by lectures and the use of a telescope. Some time is given to the study of the heavens to enable the student to become acquainted with the names and positions of the principal stars and constellations. Three hours thruout the year.

BIBICAL LITERATURE AND RELIGIOUS EDUCATION

PROFESSOR BROKENSHIRE

1. **Old Testament History.** A study of the chief events and personages from the beginning of Sacred History to the times of Christ. The Biblical narratives themselves are studied as the source, supplemented by lectures and assigned readings on the data furnished by the contemporary monuments of Babylon, Assyria, and Egypt. Geography is also studied, so far as it pertains to the history. Attention is paid to prophetic activity and literature, the poetry, and the "Wisdom Literature" of the Old Testament. Two hours, second semester. Required of freshmen.

2. **Gospel History.** The life of Christ is studied on the basis of the Gospels, attention being

given to the historical trustworthiness of the Gospels, their relations, their characteristics, and the harmony of their narratives. The journeys and events of Christ's ministry are studied in the light of the geographical and historical conditions of His time. Two hours, first semester. Required of Sophomores.

3. **Apostolic History.** The Acts of the Apostles and the epistolary literature of the New Testament are studied as primary sources. A discussion of the origin of the Christian Church, the life and work of Paul, and special introduction to the Acts of the Apostles and the Epistles. Two hours, first semester. Required of Juniors.

4. **Christian Doctrine.** A study of the fundamental doctrines of Holy Scripture, with emphasis on the essential agreement of the historic Christian Church and all evangelical denominations. Two hours, second semester. Required of Seniors.

ELECTIVE COURSES

5. **The Bible as Literature.** Attention is directed to the literary beauties of the Bible, not only in the original texts as an Oriental classic, but especially in its translations as an all-pervasive, elevating force in English prose and poetry. Open to Juniors and Seniors. Two hours, second semester.

6. **Theism and Evidences of Christianity.** The apologetics of natural and revealed religion, the ultimate aim being to exhibit positively the reasonableness of Christianity as the supernatural and absolute religion, of which the Holy Scriptures are the divinely inspired record. Three hours, first semester. 1916-1917.

7. **Ethics.** A study of the history of Ethics, with a discussion of the principal types of ethical

theory and the problems of their practical application in the light of the Christian revelation. Three hours, second semester. 1917-1918.

8. **Church History.** A study of the career of the Christian Church in its relation to the other elements of the life of the world, with attention to the development of Christian doctrine and the interior life of the Church. Two hours, first semester, 1916-1917.

9. **History of Christian Missions.** A study of ancient, mediaeval, and modern missionary enterprise and biography, with special attention to the geography of modern missions and the elevating influence of Christianity as a force in individual and social life. Two hours, second semester. 1916-1917.

10. **Comparative Religion.** Origin, characteristics, historical development and social significance of the world's great religions, with emphasis on Christianity as the absolute religion. Three hours, first semester. 1917-1918.

11. **Christian Workers' Training Course.** A study of the history, agencies, principles, and methods of religious education and practical Christian work. Three hours, second semester. 1917-1918.

BIOLOGY

DR. MacCURDY

1 and 2. **General Biology.** The work in general biology is designed to give the student a knowledge of the general principles of biology developed from the study of typical forms of plants and

animals. It also lays the foundation for more advanced work and helps to a better understanding of life phenomena and the literature which deals with biological subjects. In addition to the general principles, emphasis is laid on the methods of observation and the interpretation of biological phenomena. The course is open to all College students. Two laboratory periods and two recitations thruout the year.

3. **Morphology and General Physiology of Plants.** This course includes a study of plant forms and their development, the development and relationships of the different members of the plant body, plant cells and cell structures, plant tissues and their development and functions. Emphasis is laid on the interrelations of structure and function. Such texts as Strasburger, Coulter and Barnes, Vines, Stevens, Zimmerman's Microtechnique, and others are useful in this course. Two laboratory periods and two recitations, first semester. 1917-1918.

4. **Ecological Botany.** The study in this course depends upon the satisfactory completion of Course 3. It includes the study of the biological relations of plants, their adaptations and the chief factors determining plant distribution and associations. Warming's Plant Ecology, Clement's Research Methods, and Cowles and such reading as is available form the basis of the course. Two recitations and three hours' laboratory or field work, second semester. 1917-1918.

5. **Field Zoology.** An introduction to the life relations of the more common forms, their habits, the identification and classification of important groups. Typical habitats and the forms inhabiting them are studied. The economic importance of certain groups such as insects and birds is of

vital interest, and these claim particular attention. The class is limited in number and none should enter without permission from the instructor. Two hours, second semester.

6. **Comparative Anatomy of the Vertebrates.** Lectures and recitations on the comparative anatomy and general physiology of vertebrates. The laboratory work is on vertebrate types, which are studied with special reference to human anatomy and physiology. The course is of value to those preparing to teach and of special interest to those preparing for the study of medicine, as well as of general interest to others. Such books as Wiederheim's Comparative Anatomy, Parker and Haswell's text-book of Zoology, vol. II, Jennings and Reighard's The Cat, are useful references. Two laboratory periods and two recitations, first semester. 1916-1917.

7. **Physiology and Histology.** This is supplementary to the work in the study of anatomy of the vertebrates, and is designed to include the general physiological processes, with emphasis on those of the most practical nature. A suitable text with reference work and laboratory practice makes up the course. The references include standard and recent texts on physiology, and in the laboratory standard methods of general histology are used. Four hours, second semester. 1916-1917.

8. **General Bacteriology.** This is an introductory course dealing with the biology of bacteria and other micro-organisms. The importance of a knowledge of these forms is recognized in many branches of science and daily life. The common methods used in the study of bacteria are employed in the laboratory in the study of the bacteria of the household, foods, air and water. Em-

phasis is placed on the general physiological relations of bacteria, their distribution and relations to diseases. Buchanan's Household Bacteriology, or Frost and MacCampbell's General Bacteriology is the text, with a laboratory guide. Four hours, first semester, 1916-1917.

9. **Embryology.** A study of the segmentation and development of the germ layers and early development of the principal structures of the vertebrate body. This is fundamental to a clear conception of many problems in biology. Two recitations and two laboratory periods, first semester. 1916-1917.

10. **Heredity and Eugenics.** Since the discovery of the Mendelian law great advances have been made in a knowledge of heredity. Both science and education have gained by this, in the application of a knowledge of these laws to biological, sociological, and educational problems. This course takes up the study of the method and laws of heredity, unit characters, pure lines, elimination of undesirable traits, and the development of new and desirable traits, and the application of the principles of heredity to economic and sociological problems. Two hours, second semester.

Courses 1 and 2 are fundamental and they or their equivalent should be taken as a year's work in general biology.

While freedom of electives beyond this is permitted, students should consult the instructor before enrolling.

The courses are planned to meet the needs of four groups of students:

I. Students wanting the humanistic and cultural value of a knowledge of biology; courses 1, 2, 5, 10, and 3 and 6 elective;

II. Those who expect to teach; courses 1, 2, 3, 5, 6, and 10;

III. Students preparing for the study of medicine; 1, 2, 6, 7, and 8, 9, 10 elective;

IV. Those looking toward work in science as a profession; courses as for II and III.

CHEMISTRY

PROFESSOR WEST

1. **General Inorganic Chemistry.** A beginning course open to all students of the college. Lectures based upon some good reference text as an outline. This course must be supplemented by either Course 1 (a) or Course 1 (b). Two hours, second semester.

1 (a) **General Inorganic Chemistry.** Laboratory course. This course consists of a series of experiments with the common elements and compounds. All student who have had no laboratory work in chemistry must take this course with Course 1. Two laboratory periods, second semester.

1. (b). **Household Chemistry.** Laboratory course. The prominent place that women have come to occupy in the social and economic life of the country has made it seem wise to give the college woman an opportunity to know something of the principles underlying such problems as ventilation, sanitation, dietary standards, pure foods, adulteration of fabrics, waste materials, etc. Ex-

periments will be made in testing foods for impurities, testing drinking water, identifying natural and artificial silks, also woolen and cotton goods. Methods for removing stains, and tests for different grades of baking-powders, etc. Open to all women of the college who have had Course 1 and required of all Freshmen in the Kindergarten Training Course. Two laboratory periods, second semester.

Women who have completed Course 1 and 1 (b) may substitute the work for Course 3 and continue their work in chemistry by electing courses 4, 5, and 7. These courses form a good foundation for work in Home Economics, for the teaching of science, and in giving one a better idea of life phenomena.

2. **Advanced Inorganic Chemistry.** A discussion of some of the more advanced problems and theories together with suitable laboratory experiments. Open to all students who have had Course 1 or its equivalent. Two recitations and four hours' laboratory work, first semester.

3. **Qualitative Analysis.** This course deals with the separation and identification of the constituents of chemical compounds and mixtures by both the wet and the dry methods. Reference texts, Morgan's Qualitative Analysis and West's Laboratory Outlines. Open to all students who have had Course 1 or its equivalent. Two recitations and four hours' laboratory work, second semester.

4. **Quantitative Analysis.** Quantitative determinations are made to find the per cent. of elements and compounds present in commercial products, ores, minerals, etc., by both gravimetric and volumetric methods. The making of solutions of known value and the calibrating of apparatus.

Open to all students who have had Courses 1 to 3, inclusive. One recitation and six hours' laboratory work, first semester.

5. **Organic Chemistry, Aliphatic Compounds.** A study of the text, lectures, and laboratory work in making synthetic preparations such as ethers, chloroform, ethyl bromide, acetal chloride, methylamine, etc. Text: Perkin and Kipping's Organic Chemistry and Cohen's Practical Organic Chemistry, with laboratory outlines. Open to students who have had Courses 1 to 3, inclusive. Two recitations and four hours' laboratory work, first semester.

6. **Organic Chemistry, Aromatic Compounds.** A continuation of Course 5. Laboratory work in preparing such aromatic compounds as nitrobenzene, phenyl bromide, sulphanilic acid, aniline, malachite green, and experiments with certain carbohydrates. Text, same as in previous course. Open to students who have had Courses 1 to 3, inclusive. Two recitations and four hours' laboratory work, second semester.

7. **Chemistry of Sanitation.** A course dealing with the practical problems in chemistry that may be found in every community such as the purity of drinking water, the smoke nuisance, adulterated foods, sewage, ventilation of public buildings, prevention of fires, use of explosives, etc. The above or similar topics will form the basis of a thesis to be prepared by the student. The course will call for considerable outside reading. Open only to those who have had Courses 1 to 6, inclusive. One recitation and four hours' laboratory work. First semester. 1916-1917.

Courses 1, 2, and 5, 6 are year courses and no credit is given unless the full year's work is completed.

ECONOMICS AND SOCIAL SCIENCE

PROFESSOR MITCHELL

1. **Principles of Economics.** This course is designed to cover the more important portions of the general field of economics. The student is expected to assimilate the general principles of the subject and to be able to apply them to the discussion of practical questions. An excellent library of economics, containing the important treatises in English on the subject, is at hand, and students are required to use it freely. Three hours, thruout the year.

2. **Money and Banking.** A discussion of the theory and history of money and banking with special reference to the United States. The gold standard; bimetallism; fiat money; our present currency, with proposed changes; functions of a bank; first United States Bank; second United States Bank; our present national banking system, including our new banking and currency act; a comparison of foreign banking systems with our own, especially those of England, France, Germany, Scotland, and Canada. Three hours, second semester. 1917-1918. Prerequisite, Course 1.

3. **Principles of Taxation.** The historical development of taxation; a study of the different kinds of taxes, as the general property tax, the single tax, inheritance tax, income tax; taxation of corporations; double taxation, together with recent reforms in taxation. Three hours, first semester. 1916-1917. Prerequisite, Course 1.

4. **Corporations.** A study of modern industrial combinations, their history in the United States from the pool to the trust and holding company. Attempts at control through the application of

the Sherman anti-trust act and their results, together with proposed new legislation, will form a part of the course. Three hours, second semester. 1916-1917. Prerequisite, Course 1.

5. **Principles of Sociology.** An advanced general course. It includes an analysis and classification of social facts; discussion of the principles of social theory and the process of socialization; study of social feeling, public opinion and organized action; an inquiry into the causes of emotional epidemics, panics, mob violence, revolutions; an explanation of the growth of public opinion on great questions; an attempt to show from history and current events that public action is governed by definite laws of social change. Three hours, second semester. 1917-1918.

ENGLISH

English Language and Literature.

MR. HEDGES, MISS WAITE, MISS FOOTE.

1. **Composition, Oral and Written.** In this course two hours are given to the writing of themes and the study of prose selections, and one hour to the theory and practice of public speaking. Required of Freshmen. Three hours thruout the year.

The following courses are elective:

2. **English Literature before Shakespeare.** Special attention to Beowulf and the works of Chaucer and Spenser. Two hours, first semester. 1917-1918.

3. **Shakespeare.** The reading of perhaps twenty plays. Three hours, second semester. 1917-1918.

4. **Elizabethan Literature.** A study of the leading writers, other than Spenser and Shakespeare, of the Elizabethan Age. Two hours, second semester. 1916-1917.

5. **Milton.** Two hours, first semester. 1917-1918.

6. **Famous Biography.** A study of several of the greatest biographers in the language and of a large number of volumes of current biography and of brief magazine biographies. The course aims to interest young people in the reading of biography. Two hours, first semester. 1917-1918.

7. **Eighteenth Century Literature.** This course includes the beginnings of the English novel. Two hours, second semester. 1916-1917.

8. **Nineteenth Century Poetry.** A study of the chief poets, except Tennyson and Browning. Three hours, first semester. 1916-1917.

9. **Nineteenth Century Prose.** A study of several of the prose writers who made this century famous. The development of the novel during this century will be considered in this course. Two hours, second semester. 1917-1918.

10. **Tennyson.** Three hours, second semester. 1916-1917.

11. **Browning.** Three hours, first semester. 1917-1918.

12. **American Classics.** A study of the style and the literary value of a number of famous

American poems, essays, novels, etc. Two hours, second semester. 1917-1918.

13. **Contemporary Drama.** A study of twenty or thirty dramas written during recent years. Those from foreign languages will be read in translation. Two hours, first semester. 1916-1917.

14. **Literary Composition.** A study of leading forms of literature with practice in construction. Two hours, first semester. 1916-1917.

English Speech.

PROFESSOR HEDGES, MISS HITCHCOCK

(The first course, treating of the fundamentals of English speech, is offered as a part of English 1a and 1b.)

1. **The Oration.** A course in the study and writing of orations. Three hours, first semester. 1916-1917.

2. **Interpretive Reading.** A consideration of the forms of literature, followed by character studies and impersonations. Three hours, second semester. 1917-1918.

3. **Public Speech.** This is a general utility course and is designed to deal with forms of public speech expected of those who mingle in public affairs. Simplicity and succinctness are the keynotes. Two hours, second semester. 1916-1917.

4. **Argumentation.** Consideration is given to the principles of argument, evidence, proof, and brief-drawing. Three hours, first semester. 1916-1917.

5. **Debating.** In part, this course reviews principles studied in Course 4. The greater part of the work in this course will consist of the practical discussion of problems of the day, and especially the question for inter-collegiate debate. Team debates will be scheduled. Two hours, second semester. 1916-1917.

FRENCH

MISS FOOTE

1. **Elementary French.** Grammar and easy reading, with practice in speaking and writing. Four hours, first semester.

2. **Elementary French.** Continuation of Course 1. For those who have had Course 1, or one year in the high school. Four hours, second semester.

3. **Intermediate French.** Easy prose and plays, with practice in speaking and writing. Grammar review. Four hours, first semester.

4. **Intermediate French.** Continuation of Course 3. Four hours, second semester.

5. **French Composition.** Open to students who have completed Courses 1, 2, 3, 4. Two hours thruout the year.

6. **General Course in French Literature.** History of literature will be used as text and selections from authors will be read in class. Two hours thruout the year.

7. **A Study of the Works of Rousseau.** Open to students who have completed courses 1, 2, 3, 4. Two hours thruout the year.

8. **French Prose of the Nineteenth Century.** The works of such authors as Daudet, Zola, Bourget will be studied. 1917-1918. Three hours thruout the year.

9. **A Study of the Works of Maeterlinck and Rostand.** Open to students who have completed courses 1, 2, 3, 4,. Two hours thruout the year. 1916-1917.

GEOLOGY

DR. MacCURDY

This course is planned to give a general knowledge of geology by study of the geological changes of the present and by presenting the chief facts and theories. A fair knowledge of dynamic, structural, and historical geology is sought, attention being given to the geology of the North American continent and the geological history of Michigan. A good collection of minerals, rocks, and fossils is available for laboratory work. The course includes the use of a manual, lectures, selected readings, laboratory work, and field studies. Three hours, two semesters. 1916-1917.

GERMAN

DR. BOBER

1. **Elementary German.** The Comenian Method, grammar, practice in speaking and writing German. Four hours, first semester.

2. **Elementary German.** Bernstorff's Grammar and exercises, Nicotiana, by Baumbach; selected poems. Prerequisite, course 1 or one entrance unit. Four hours, second semester.

3. **Intermediate German.** Selections in easy prose and verse with composition and conversational exercises, based on topics drawn from the text. Im Zwielicht, by Baumbach; Die Schulresterin by E. Pohl; Balladen by Buerger, Uhland, Schiller. Prerequisite, Courses 1 and 2, or two entrance units. Four hours, first semester

4. **Intermediate German.** Continuation of Course 3. Prerequisite, Courses 1, 2, 3, or three entrance units. Four hours, second semester.

Courses 1, 2, 3, and 4 are laid out chiefly for students who wish to acquire, besides a facility in reading modern German, that of expressing themselves in German on ordinary topics.

5. **German Composition.** Open to students who have completed Courses 1, 2, 3, and 4. Tuscott and Smith's Ele'y German Composition. While composition is practised in Courses 1, 2, 3, and 4, this course is laid out particularly for a thoro practical review of the use of the modal auxiliaries, the passive voice, the infinitive, the subjunctive and participial constructions.

ADVANCED COURSES

6. **Outlines of the History of German Literature.** From the earliest times to Goethe. Deutsche Litteratur-Geschicte by Bernhardt. Two hours thruout the year.

Students wishing to take any of the advanced courses are recommended to begin with this course.

7a. **Lessing, Schiller, and Goethe.** Lessing's Minna von Barnhelm, Schiller's Maria Stuart, Goethe's Goetz von Berlichingen. Conversational exercises based on topics drawn from the text. Three hours thruout the year. 1916-1917.

7b. **Lessing, Schiller, and Goethe.** Lessing's Nathan der Weise, Schiller's Wilhelm Tell, Iphigenie in Tauris. Conversational exercises based on topics drawn from the text. Three hours thruout the year. 1917-1918.

8a. **Contemporary German.** L. Fulda's Talisman, Sudermann's Heimat, G. Hauptmann's Versunkene Glocke, Wolff's Lurlei. Three hours, thruout the year. 1916-1917.

8b. **Contemporary German.** Sudermann's Ehre, Heyse's L'Arrabbiata, Wildenbruch's Kindertraenen, V. Scheffel's Trompeter von Saekkengen. Three hours thruout the year. 1917-1918.

9. **Goethe's Faust** (first part.) This course is laid out to acquaint the student with Goethe's masterpiece, his sources, and a comparison of Faust with the works of Marlow, and Lenau. Collateral reading. Two hours thruout the year. 1916-1917.

GREEK

DR. EWING

1. **Elementary Greek.** White's First Greek Book. Five hours, first semester.

2. **Xenophon's Anabasis.** Prose composition. Five hours, second semester.

3. **Colson's Reader.** Selections from Herodotus; Greek literature; prose composition. Four hours, first semester. Prerequisite, Course 2.

4. **Homer.** Book I of the Iliad translated and the forms and metrical peculiarities carefully studied; rapid reading of the most interesting portions of the text with frequent practice in sight translation; topical study of the Homeric Age; Greek literature. Four hours, second semester. Prerequisite, Course 3.

ELECTIVE COURSES

5. **Lyric Poetry.** A study of the various forms of the lyric as a connecting link between the epic and the drama. Four hours, first semester. Prerequisite, Courses 3 and 4.

6. **Dramatic Poetry.** The reading of selected plays; lectures on the origin and development of the drama; Greek literature. Four hours, second semester. Prerequisite, Course 5.

7. **Herodotus, Thucydides, Xenophon.** Notes on Greek constitutional development, illustrated by copious readings. Four hours, first semester. Prerequisite, Courses 3 and 4.

8. **Lysias, Demosthenes.** A study of the history and influence of Greek oratory. Four hours, second semester. Prerequisite, Courses 3 and 4. Courses 7 and 8 alternate with Courses 5 and 6.

9. **Plato; Xenophon.** Selections from Plato's Apology, Crito, and Phaedo, and the Memorabilia of Xenophon; outlines of Greek philosophy. Three hours, first semester.

10. **Theocritus; Lucian.** Studies in the later literature. Three hours, second semester.

11. **Greek Life and Art.** A study of the civilization of the Greeks and its influence upon later peoples and times, by means of lectures and supplementary readings, and illustrated by the use of the lantern. A knowledge of Greek is not necessary for this course. Three hours, second semester.

12. **Greek Literature in English.** A reading of Greek masterpieces in translation supplemented by lectures on the development of literary form among the Greeks. This course alternates with Course 11. Three hours, second semester. 1916-1917.

13. **The Greek in English.** A brief course in the elements of the language, primarily for the benefit of scientific students in acquiring a better knowledge of the terminology of science. Three hours, first semester.

14. **New Testament Greek.** A careful study of Hellenistic Greek based upon the Gospel of Luke. This course alternates with Course 13. Three hours, first semester. 1916-1917.

The major in Greek must include, in addition to Courses 3 and 4, twelve hours to be selected from Courses 5-10 and 14.

HISTORY AND POLITICAL SCIENCE

PROFESSOR MITCHELL

1. **European History.** From the Fall of the Roman Empire in the West to the Peace of Westphalia, 1648. Three hours, first semester.

2. **European History.** From the Peace of Westphalia to the present time. Three hours, second semester.

3. **The History of Europe since 1870.** Open to those who have taken Courses 1 and 2. Three hours, thruout the year. 1916-1917.

4. **History of England.** Political and Constitutional. Three hours thuout the year. 1917-1918

5. **History of the United States.** Colonial and Revolutionary Periods, 1492-1789. Three hours, first semester. Prerequisite, Courses 1 and 2.

6. **History of the United States.** National Development and the Slavery Question, 1789-1861. Three hours, second semester. 1917-1918.

7. **History of the United States.** The Civil War and Reconstruction, 1861-1876. Three hours, first semester. 1916-1917. Prerequisite, Courses 5 and 6.

8. **Greek History.** From the earliest times to the death of Alexander. Three hours, first semester. 1917-1918.

9. **Roman History.** From the earliest times to the barbarian invasions. Three hours, second semester. 1917-1918.

10. **The State.** A discussion of the origin, forms, and ends of the state, together with a history of the formation of the constitutions of England, France, Germany, and the United States. Three hours, first semester. Prerequisite, Courses 1 and 2. 1916-1917.

11. **Political Philosophy.** A history of political theories from Plato to Luther. Open to those who have taken Courses 1 and 2 in History. Three hours, first semester. 1916-1917.

12. **Political Philosophy.** A history of political theories from Luther to Montesquieu. Open

to those who have taken Course 11. Three hours, second semester. 1916-1917.

13. **American Government.** An analysis of the nature, structure,and working of the Federal Government and a comparison with the English system. Three hours, second semester. 1916-1917.

14. **European Governments.** A study of the governments of England, France, Germany, and Italy. Three hours thruout the year. 1916-1917.

KINDERGARTEN TRAINING

MISS ROBINSON AND MISS CONYNE

1. **Kindergarten Theory 1.** This course covers a study of the theory of (a) Plays and games, (b) Child study, (c) Story work, (d) Hygiene. Three hours thruout the Freshman year.

2. **Kindergarten Theory 1.** A study of principles as related to the building and carrying out of the kindergarten program is taken up in this course. Also a study of stories and the sources of children's literature. In the latter work, students have practical experience in story telling to children and adults. Prerequisite, Kindergarten Theory 1. Two hours thruout the Sophomore year.

3. **Gift Work 1.** The Frobellian gifts are studied with special reference to their technique, the aim being to develop skill and ability in their use as material. Two hours thruout the Freshman year.

4. **Gift Work 2.** This course is a continuation of Gift Work 1, with relation to their application

and function in the program of the Kindergarten. One hour, first semester, Sophomore year.

5. **Occupation Work 1.** This work covers the traditional Froebellian occupations of sewing, weaving, cutting and folding, clay and color work. Two hours thruout the Freshman year.

6. **Occupation Work 2.** This course covers a group of studies in the industrial arts with relation to child life. Prerequisite, Occupation Work 1. One hour thruout Sophomore year.

7. **Ethics 1.** Everyday Ethics by Cabot is used as a basis for the discussion of questions of ethics as related to everyday living. One hour thruout the Freshman year.

8. **Ethics 2, or Mother Play.** This course consists of a study of the most typical of the Froebellian mother plays and the ethical as well as educational principles involved. One hour thruout the Sophomore year.

9. **History of Education.** See Courses 1 and 2 in Education, page 48.

10. **Child Study.** This course presupposes a year and a half in the department, and Psychology 1. Fundamentals of Child Study by Kirkpatrick is used as the text. Two hours, second semester, Sophomore year.

11. **Songs and Games.** A course in the development of games and in actual participation in them. Kindergarten songs are studied from the point of view of content, musical construction, and suitability for children. One hour thruout the Freshman and Sophomore years.

12. **Teaching.** The work in Teaching consists of practical experience in the College kinder-

garten, supplemented by work in the kindergarten and the first three primary grades of the local public schools. Teachers' meetings, with discussions of the problems involved, are part of this work. Six hours thruout the year.

On the completion of the above courses and the required college work, consisting of two semesters of English, two of Biology, one of Household Chemistry, two of Bible, and two of college electives (6 hours), the student is granted a state life kindergarten certificate.

Students desiring further study may continue, with the emphasis laid upon the department work, for one more year, at the end of which a certificate will be given.

The following courses are for third-year students:

13. **Froebel's Education of Man.** One hour thruout the year.

14. **Froebel's Mother Play** and **Henderson's Children of Good Fortune.** One hour thruout the year.

15. **Pedagogy.** Advanced story work with the emphasis on analysis and story-telling. Dewey's Pedagogical Creed and Interest as Related to Will are the lines of this work. One hour thruout the year.

16. **School Management.** Two hours thruout the year.

17. **Theory and Practice.** This work involves more advanced program work and the management of the entire kindergarten. Five hours thruout the year.

Upon the completion of a fourth year, made up of work in majors and advanced college electives, the degree of A. B. will be conferred.

LATIN

DR. EWING, ASSISTANT PROFESSOR COOK

1. **Elementary Course.** (a) Lessons; (b) Cæsar. Course 1 covers the work of the two units of foreign language required for entrance to college or to the law or medical school. Five hours thruout the year.

2. **Intermediate Course.** (a) Cicero; (b) Vergil. Course 2 is offered to those who have had two or three years of Latin and wish to prepare themselves to enter Course 3 in one year. Five hours thruout the year.

3. **Cicero, De Senectute.**. Inflections and word analysis; reading of selections from Ennius, Lucretius, Vergil, Sallust; Roman Literature of the Republic. Four hours, first semester.

4. **Livy, Book XXI.** Review of syntax; a play of Terence for reading at sight; topography of Rome. Four hours, second semester.

5. **Horace.** Odes and selections from the Epodes; study of the style and qualities of Horace; social and political conditions of the Augustan Age; Literature of the Augustan Age. Three hours, first semester.

6. **Pliny's Letters.** Selections from Martial, Tacitus, Suetonius; Silver Age Literature. Three hours, second semester.

ELECTIVE COURSES

7. **Roman Drama.** Plautus, Terence, Seneca. Three hours, first semester.

8. **Roman Philosophy.** Lucretius, Cicero, Seneca. Three hours, second semester.

9. **Roman Satire.** Horace, Persius, Juvenal. Three hours, first semester.

10. **Roman Elegy.** Catullus, Tibullus, Propertius. Three hours, second semester.

11. **Roman Literature in English.** An outline course of readings in the best translations, offered primarily to non-classical students. Three hours, first semester.

12. **Roman Life and Art.** Private life of the Romans; lectures and readings, illustrated by the lantern. This course does not require a knowledge of Latin. Three hours, first semester. Alternates with Course 11.

13. **Teacher's Course.** A careful study of portions of Cæsar; review of elementary Latin grammar, pronunciation, etc; methods of the work of the first and second years of Latin study. Two hours, second semester.

14. **Teacher's Course.** A careful review of one oration of Cicero and one book of the Æneid, with special attention to forms and syntax, and versification; methods of teaching third and fourth year Latin. This course alternates with Course 13. Two hours, second semester.

The major in Latin must include, in addition to Courses 3 to 6, nine hours to be selected from Courses 7 to 10, 13, and 14.

LIBRARY METHODS

MISS COOK

A course in classification, cataloging, reference work and bibliography. Elective for Juniors and Seniors. One hour, first semester.

MATHEMATICS

DR. NOTESTEIN

1. **Algebra and Trigonometry.** Algebra: the theory of logarithms and other selected portions. Plane Trigonometry: a study of the functions of angles; trigonometric formulae, their derivation and transformation, with their application to the solution of problems. Four hours, first semester.

2. **Analytical Geometry.** The bilinear and the polar systems of co-ordinates; properties of the straight line and conic sections; general equation of the second degree and higher curves. Four hours, second semester.

3. **College Algebra.** This course includes progressions, binomial theorem, undetermined co-efficients, series and higher equations. Two hours, thruout the year.

4. **Spherical Trigonometry and Solid Analytical Geometry.** Napier's rules of circular parts; the solution of problems and the application of spherical trigonometry to astronomy.

System of co-ordinates in solid analytical geometry; lines, planes and surfaces. Two hours thruout the year. Prerequisites, 1 and 2.

5a. **Differential Calculus.** A study of the rules and formulae for differentiation, expansions of functions, indeterminate forms, application of calculus to curves, maxima and minima. Five hours, first semester.

5b. **Integral Calculus.** This course includes a study of the methods of integration, the application of integral calculus to curves, areas, volume, moment of inertia, pressure, etc. Five hours, second semester.

6. **Surveying.** A combined theoretical and practical course covering such topics as adjustments of instruments; land surveying, including running of lines, reestablishing of corners, determination of heights; simple triangulation; measurement of areas; leveling; topographic surveying; laying out curves and computation of earthwork. Prerequisite, Course 1. Two hours thruout the year. 1917-1918.

7. **The Theory of Equations.** This course includes a study of the general properties of the equation; transformations; differentiation of algebraic functions; cubic and biquadratic equations; location of roots; the solution of numerical equations and the theory of determinants. Open to Juniors and Seniors. Three hours thruout the year.

8. **Teacher's Training Course.** This is an elective course open to Juniors and Seniors who are planning to teach mathematics in secondary schools, and to all other students who may need such a course. The work of the first semester will include a review of the fundamental principles of high school mathematics supplemented by advanced work in these branches. The second semester will embrace a discussion of standard textbooks; methods of teaching and selected topics from the History of Mathematics. Three hours thruout the year. 1916-1917.

9. **Advanced Calculus.** A continuation of Courses 5a and 5b, with numerous practical applications of the differential and integral calculus. Open to Seniors. Three hours thruout the year.

10a. **Analytical Mechanics.** This course treats of the foundamental principles of mechanics, the composition and resolution of forces, center of mass, friction, virtual velocity, machines, attraction, rectilinear and curvilinear motion. Three hours, first semester.

10b. This course deals with the laws of motion, forces, vis viva, impact, work and energy, moment of inertia, rotary motion, motion of a system of rigid bodies in space. Three hours, second semester,

The major in Mathematics must include, in addition to Course 5, six hours selected from Courses 7-10.

MUSIC

MR. VEATCH AND MISS ROBERTS

1. **Solfeggio.** Rudiments of music, intervals, major and minor scales, notation, sight singing and fundamental chord structure. Two hours thruout the year. 1916-1917.

2. **Musical Appreciation.** A practical study from the appreciative and esthetic point of view of the best known works of the masters in the fields of oratorio, opera, art song and piano and orchestra literature. Two hours thruout the year. 1916-1917.

3. **Harmony.** Construction and combination of simple and discord harmonies. Harmonization of given melodies. Original composition of simple phrases and periods. Passing tones, suspensions and modulations. Hymn writing. Two hours thruout the year. Prerequisite, Course 1.

4. **History of Music.** A study of the development of various forms and schools of composition, evolution of musical instruments and biographies of great performers and composers. Two hours thruout the year.

5. **Analysis.** A careful study of a large variety of compositions from a harmonic and thematic point of view. Prerequisite, Courses 1 and 3. Two hours thruout the year.

6. **Ear Training.** Exercises based on text by Heacox for the purpose of developing the power to hear music mentally. Prerequisite, Courses 1 and 3. Two hours thruout the year.

7. **Composition.** An application of the principles of Harmony to original work in various bining melodies in polyphonic style. Prerequisite, simple forms. Prerequisite, Courses 1 and 3. Two hours thruout the year.

8. **Counterpoint.** A study of the art of com-Courses 1 and 3. Two hours thruout the year.

9. **Practical Courses** in Piano, Pipe Organ and Voice. Private lessons. Special tuition.

The first eight courses above are open to regular college students as elective or major subjects without additional tuition. Candidates for an A. B. degree desiring to major in music must present twenty hours of theoretical musical work as a first major and twenty hours of practical musical work, including two practical subjects, as a second major.

Candidates for a certificate in music must present besides regular college entrance requirements the following prescribed courses: Theoretical music courses, 1 to 8 inclusive; major practical subject, four years, two lessons per week; minor practical subject, two years, one lesson per week; German, eight hours; French, eight hours; English, six hours; Bible, four hours; choral and ensemble work, eight hours; Gymnasium, two hours.

Special students in music must pursue a prescribed course, including two theoretical subjects, a major practical subject, two lessons per week, and a minor practical subject, one lesson per week.

PHILOSOPHY AND EDUCATION

DR. RANDELS

PHILOSOPHY

1 and 2. **History of Philosophy.** The study of what the great thinkers of the world have thought and written about the problems of life. Open to Juniors. Three hours thruout the year.

3. **Logic.** A study of principles of inductive and deductive reasoning. Open to Juniors and Seniors. Three hours, first semester. 1917-1918.

4. **Aesthetics.** A consideration of the principles which underlie the aesthetic appreciation of architecture and painting. Open to Juniors and Seniors. Three hours, second semester. 1917-1918.

5. **Readings in Modern Philosophy.** This course will serve as an introduction to philosophy, since some of the fundamental problems of philosophy will be especially noted. There will be a first-hand study of the writings of Descartes, Locke, Berkeley, and Hume. Open to Junior and Seniors. Three hours, first semester. 1916-1917.

6. **Readings in Philosophy.** A first-hand study of the writings of other philosophers than those studied in connection with Course 5. Open to Juniors and Seniors. Three hours, second semester. 1916-1917.

PSYCHOLOGY

1. **General Psychology.** The purpose of this course is to interest the student in the study of himself. The text-book work is supplemented by simple experiments designed to give the student first-hand information and to promote independent work. Open to Sophomores. Three hours, first semester.

2. **General and Educational Psychology.** Continuation of Course 1 with especial attention to those parts of psychology which have the widest application to education. Three hours, second semester.

EDUCATION

1 and 2. **History of Education.** An outline of the development of educational theory and practice in the light of economic, social, political, philosophical, and religious conditions at different ages. Open to Juniors. Two hours thruout the year.

3. **Principles of Education.** Principles contributed by biology, psychology, sociology, and philosophy which appear to be the foundations of modern education. Open to Seniors. Two hours, first semester.

4. **General Principles of Method.** Selection and arrangement of subject-matter, the doctrine of interest, the formal steps, and the preparation

of lesson plans, classroom management. Open to Juniors. Two hours, second semester.

5. **Psychology and Pedagogy of Exceptional Children.** It includes methods of diagnosis, the Binet tests of intelligence, physical tests and measurements, heredity, natal influences, accidents, diseases etc. Two hours, first semester.

Graduates from any of the college groups of study who complete not less than eleven hours of the above courses in psychology and education in addition to Psychology 1 will be recommended by the faculty to the State Board of Education for a teacher's certificate which will enable them to teach in the public schools of Michigan without examination.

The required philosophy should consist of two courses selected from 1, 2, 5, and 7.

A major in philosophy would include courses 1 and 2, and fourteen hours' work selected from courses 3 to 7 and course 6 in the department of Religious Education. Courses 11 and 12 in the department of history are recommended to any majoring in philosophy.

PHYSICS

PROFESSOR MANEY

1. **General Physics.** Lectures and recitations. Year course, three hours per week. This and course 3 (a and b) constitute the pre-medical course in Physics. Those intending to take the advanced work in the department or engineering courses in a technical school should register in courses 2 and 3 (a and b).

2a. **Mechanics, Sound, and Heat.** Lectures and recitations. A knowledge of plane trigonometry is a prerequisite. Four hours, first semester.

2b. **Light, Magnetism, and Electricity.** Lectures and recitations. Four hours, second semester.

3a and 3b. **Laboratory Physics.** Designed to accompany courses 1 and 2, but may be taken the following year. This course consists of quantitative measurements, the use of instruments of precision, the vertification of the laws of Physics, the determination of constants and coefficients, and the manipulation of apparatus. Two laboratory periods each semester. 3c. One laboratory period, each semester.

4. **Electricity and Magnetism.** Advanced course. Open to those who have had courses 2 and 3, or the equivalent. Registration in Calculus is advised. Two recitations and one laboratory period.

5. **Light.** Advanced course. Two recitations and one laboratory period.

6. **Laboratory Physics.** Advanced course. Offers individual work in the laboratory on topics specially chosen to serve best the needs and capacity of each student; intended to introduce him to some of the more intricate physical measurements. Three laboratory periods.

7. **Measurement and Computation.** A practical course with applications of the principles of Least Squares and methods of computation. Open to those who are taking or have completed trigonometry and college algebra. Two hours.

8. **Theory of Measurement.** A mathematical study of the Method of Least Squares. Calculus is a prerequisite. Two hours.

9. **Elements of Modern Astrophysics.** The course comprises an introduction to the general principles of the subject and in particular is concerned with recent research. Prerequisites, course 8 and descriptive astronomy. Three hours.

PHYSICAL TRAINING FOR WOMEN

MISS HITCHCOCK

The demand for physical education is rapidly growing. It has become a self-evident fact that properly directed exercise will bring us to a normal state, giving health, development, control, freedom, grace, and poise.

The graded course of regular class work, which is offered to and required of every woman student, covers two years of training, for which classes meet three times a week. The floor work consists of drills in Swedish gymnastics, dumbbells, Indian clubs, wands, the Delsarte system of movements for grace and rhythm, games, and aesthetic and national dances. A certain amount of outdoor work is included in the regular course. Long walks, skating, tennis, and other outdoor sports in season. The regular tournament deciding the college tennis championship is held in May. In connection with the floor and outdoor work, a study of hygiene and "first aid" is required of everyone.

The purpose of the course is to improve the organs of the circulatory, respiratory, and digestive systems; to give perfect control over voluntary motion by training the body to obey the commands of the will with the least waste of energy. Relaxing and breathing exercises bring rest to the over-tired nerves. In order to secure the proper position, to correct the bad posture, round shoulders, flat chest, etc., it is necessary to give special prescriptions of corrective exercises. An examination is made when the pupil arrives, and exercises are prescribed by the instructor to correct any irregularity or weakness in development noted at the time.

These co-ordinated exercises give a rare buoyancy and lightness of the figure, with bodily control which results in unity of action, in poise, freedom and grace, and at the same time furnishes exercise sufficiently vigorous to stimulate the vital organs to increased activity.

All students taking the work are expected to wear the uniform which is black serge bloomers, white cotton blouse, and Swedish gymnasium shoes.

PHYSICAL TRAINING FOR MEN

MR. BLEAMASTER

Special attention is given to the health and physical welfare of the men of the College. In order to help towards this end, physical training work has been put on a credit basis, two hours' work being required of each student before graduation.

During the spring and fall months, outdoor work is emphasized through competition for positions on the various teams, namely, football, track, tennis, and cross-country running. These teams are open to all, and every one is urged to enter one of them.

During the winter months, from November 1st to April 1st, regular gymnasium practice is required of all Freshmen and Sophomores.

This work consists of two hours of class work each week, regular class periods being scheduled for this purpose. The work is divided into two grades, that for Freshmen consisting of marching, calisthenics (both free hand, dumb-bells, Indian club and wand drills) and also of the simpler apparatus work on the horse, the bars, and the ladders. The second year men, and those judged by the instructor to be more proficient in that line of work, are given more advanced training in calisthenics and heavy apparatus and are also given practice in leading the other classes.

In the fall, students who are not on the football squad must engage in cross-country runs at least three times a week. In the spring, they must take up either baseball, track, or tennis.

The work is planned so that every man in the Freshman or Sophomore class, not excused by the Faculty upon the recommendation of the athletic director, must be engaged during a part of his college year in some form of athletics.

The ultimate aim of athletic instruction in Alma is not the creation of a few stars, but the development of the individual to a greater physical proficiency.

An incidental fee is required of each student, which gives him use of a private locker and all the privileges of the field and gymnasium, and also admits him free to all athletic contests.

Students who are below grade in more than three hours' work cannot compete in any intercollegiate contest, and students who are below grade in more than two courses must drop out of all athletic teams until their work has been made up.

At the beginning of each semester the student will be subjected to careful physical examination and measurements. Exercises in the gymnasium will then be prescribed which are appropriate for his needs.

An elective for juniors and seniors covers the theory and practice of physical training and coaching. It prepares men for high school positions.

General Information

SUGGESTIONS TO APPLICANTS FOR ADMISSION

The requirements for admission to the College are presented on pages 12 and 13. For and understanding of the nature and scope of the courses of study of the College, the applicant should study the description of courses presented on pages 18 to 54. The index at the end of this Catalog will direct him to the page on which any given subject is treated.

New students should arrive the Monday before the opening of a semester, so as to conclude all necessary arrangements. Young women go directly to Wright Hall and consult the Dean of Women. Young men should come at once to the President's office in the main college building.

ADMISSION AND DISMISSION

Applicants for admission to any department of the institution will first report to the President for registration. They must present testimonials of good character, and those who are from other institutions of learning must furnish certificates of standing and of honorable dismissal.

All students admitted to the institution will be on probation for the first three months. If during this period a longer stay is by the Faculty deemed inadvisable in the case of any student, he may be so informed privately and permitted to withdraw. Any student may at any time be privately dismissed if the Faculty deem his further connection with the school undesirable. All students entering the College accept these conditions of matriculation.

Any student against whom there are no unpaid bills nor charges of misconduct is entitled to an honorable dismissal.

STUDIES AND EXAMINATIONS

No student may take up a study out of the order prescribed in this Catalog nor drop a study once entered upon, without the consent of the Faculty.

No student is allowed to take less than twelve hours of work, nor may he take more than sixteen hours of work without special permision. An applicant asking permission to take more than sixteen hours of work must have maintained an average of B in the work of the previous semester·

Students whose class work in the current semester averages below B-, or who have more than two conditions, are not allowed to represent the College as delegates to conventions or as members of debating, oratorical, or athletic teams.

Examinations are held at the close of each semester and at intervals during the semester at the discretion of the instructor. The results of examinations are reported to parents at the end of each semester, and recorded for future reference. In case of Freshmen, a report of class standing is sent also at Thanksgiving recess and at the spring vacation.

If at any examination the standing of a student is unsatisfactory, he shall be duly informed and notice shall be sent to his parents or guardian. If there is no improvement, the student may be dismissed from college.

Conditions must be removed within one year from the time of the examination.

KINDERGARTEN WORK

The nature of the instruction in kindergarten work makes small classes necessary. While some freshman women may be admitted to this work, preference is given to young women who have already done college work for a year or two. Such preparation renders the kindergarten training more valuable, and makes the life outlook of the student broader and more satisfying. The College therefore urges young women to take at least a year of the regular college work before beginning the kindergarten training. The number of students permitted to begin this work each year is limited.

CREDITS AND HONORS

By the College marking plan, excellence in scholarship is recognized through a system of honor-points corresponding to the class standings received.

Class standings are indicated by letters. A, B, B-, C, C-, D are passing grades. But honor-points are earned by the first three letters only. For a grade of A in any subject, three times as many honor points will be given as there are hours in the course; for a grade of B, twice as many honor-points; and for a grade of B-, the same number of honor points. One hundred honor-points are required for graduation. For graduation cum laude, 200 points are required; for graduation magna cum laude, 250 points are required; and for graduation summa cum laude, 300 points are required.

DEGREES AND CERTIFICATES

The degree of Bachelor of Arts (A. B.) is conferred upon all graduates of the College, except that the degree of Bachelor of Science (B. S.) may be conferred upon graduates who have had at least one half of their college work in science, if they prefer this degree.

The Bachelor's degree will not be conferred upon a student unless he has been in residence for at least one year. As a rule, a student must be in residence during the year immediately preceding his graduation.

A Master's degree in any of the above-mentioned groups will be given to graduates of at least two years' standing who have pursued advanced studies under the direction of the Faculty, and given sufficient evidence of adequate attainments, including the submission of a satisfactory thesis.

Students who complete the prescribed courses in Kindergarten Training or in Music, will receive certificates.

RULES FOR CLASSIFYING COLLEGE STUDENTS IN THE CATALOG

1. For Sophomore standing a minimum credit of 40 hours is required; for Junior standing, 70 hours; for Senior standing, 100 hours.

2. No student shall be classified as a Sophomore who has any entrance conditions; nor as a Junior, who has any Freshman conditions; nor as a Senior, who has any Sophomore conditions.

DIVISIONS OF THE COLLEGE YEAR

For purposes of administration and instruction, the year is divided into semesters of eighteen weeks each, the first opening about the middle of September, the second about the 1st of February. The usual holiday and spring vacations divide the year into three terms of about twelve weeks each.

Students absent from recitations immediately preceding or following a vacation are assessed one dollar for each absence. However, not over three dollars is so assessed for such absences before, or three dollars after a vacation.

For the dates of the opening and the closing of terms and semesters, see Calendar at the beginning of this Catalog.

ROOMS AND BOARD

The College maintains a residential hall for women, Wright Hall, and one for men, Pioneer Hall.

Wright Hall

Unless excused by the Faculty, all young women are expected to live in Wright Hall, which is under the immediate supervision of the Dean of Women. She is directly responsible for the government of the young women and will assign them their rooms and have the general supervision of their personal habits and activities.

Parents should not make arrangements for a daughter to live outside Wright Hall without first consulting the Dean of Women or the President.

Parents and guardians are invited to communicate freely with the Dean touching the interests of their daughters and wards, thus enabling her to understand and meet the peculiar needs of each student.

Girls under sixteen years of age will not be received, except by special arrangement.

At the time of application for admission, a deposit of $5 must be made by each student in order to reserve a room. This sum will be credited on room rent or will be refunded if the student decides to withdraw, provided notice is sent a month before the beginning of the college year. Make checks payable to Alma College.

The rooms are single or arranged in suites and are furnished with single enameled couch bed and springs, felt mattress and pad, pillow, oak dresser, washstand with crockery, study table, bookcase, chairs, and window shades. Each student must furnish her own towels, two pairs of sheets and pillow-slips, blankets or comforts, floor coverings, and such conveniences and adornments as may be desired.

Because of the danger of fire, the trustees of the College prohibit the use of chafing dishes, electric cooking appliances, electric irons, etc., except in rooms especially provided in the basement. Parents are asked to co-operate in enforcing this regulation.

The price of single rooms is from $1.00 to $1.75 a week, according to size and location, most of them being $1.50 a week. A deposit of fifty cents is required for keys, which is returned on surrender of keys. Parents are urged to pay room rent at least a term in advance, sending check directly to the College.

Pioneer Hall

This building accommodates between fifty and sixty young men. Those unable to secure rooms in it, will be directed by the College to satisfactory rooms in private homes.

Rooms in Pioneer Hall are provided with bed, springs, mattress, table, chairs, bookrack and wardrobe. Students must furnish for themselves towels, sheets, pillow slips, and blankets. They also pay for laundering these articles. Rooms are seventy-five cents a week for each occupant, plus the proportionate cost of electric light. Upon engaging a room each student deposits $5.00, which is returned if for any reason the room should not be desired and due notice is given before September 1. This deposit is made to meet any damages that may be assessed against the student, either such as may be traced to him or such as may be assessed pro rata upon the occupants of the Hall for damage done therein. Any unexpended balance of this deposit will be returned to the student within one week after the close of the year. For his room key each student deposits fifty cents, which is refunded when the key is returned. Young men desiring to engage rooms should address the College. Checks should be made payable to Alma College.

Board

Young women living in Wright Hall are required to board in the building. Young men desiring to get their meals there are permitted to do so. In the dining room at least a half dozen members of the faculty take their meals.

Board is conducted on the co-operative plan, each student paying his exact share of the total cost of food, help, service, and overhead. The cost is from $3.25 to $3.50 a week, or about $120 a year.

Some young men board in private homes or restaurants. Parents are urged, however, to have their sons board in the College dining-room.

COLLEGE EXPENSES

Parents are urged to pay room rent, board, and tuition by the semester (eighteen weeks) in advance, sending checks directly to the College, made payable to Alma College. Bills for all unpaid accounts will be sent monthly to parents.

Rooms

As already explained, rooms for young women in Wright Hall cost from one to two dollars per week, or from $36 to $72 a year. In Pioneer Hall, rooms for boys cost seventy-five cents per week, plus the co-operative cost of electric light. This makes the room cost about one dollar a week, or $36 a year.

Board

As explained above, co-operative board in Wright Hall costs about $120 a year.

Tuition in College

All students pay $20 tuition each semester, or $40 for the year.

Students will be charged $1.50 per hour for all academic work in excess of sixteen hours per semester. If at graduation the student has paid for more than 120 hours work he shall be given a rebate so that the total amount paid by him for academic tuition shall not exceed $160.00.

Incidental Fee

All regular students pay an incidental fee of $5.00 each semester, or $10 for the year. This admits to all athletic games, all public speaking and debating contests, and includes library, gymnasium, tennis court, and museum fees.

Special students taking one to five hours per week, pay no incidental fee; those who take from six to nine hours per week, pay $2.50 per semester; those who take ten or more hours per week, pay $5 per semester.

Matriculation Fee

Every student entering the College pays a matriculation fee of $5.00 at entrance.

Laboratory Fees

For the use of laboratory apparatus and equipment, each student taking work in chemistry or physics pays a special laboratory fee of $5.00 each semester, and each student taking biology a fee of $3.00 each semester.

TUITION IN MUSIC

Lessons in Voice

One thirty-minute lesson a week, per semester	$25.00
Two thirty-minute lessons a week, per semester	45.00
Three thirty-minute lessons a week, per semester	60.00

Lessons in Pianoforte and Pipe Organ

One thirty-minute lesson a week, per semester	$18.00
Two thirty-minute lessons a week, per semester	25.00
Three thirty-minute lessons a week, per semester	40.00
All theoretical subjects, per semester	8.00

(Due from regular and special music students only)

Use of Piano

One hour per day, per semester	$4.00
Two hours per day, per semester	6.00
Three hours per day, per semester	8.00

Regulations

All tuition must be paid in advance.

Lessons missed by students will not be made up except in cases of illness or unavoidable absence from school. In such case notice should be given in advance.

Music students taking at least two lessons a week, are allowed to take work in College classes to the extent of five hours a week without extra charge.

If a student leaves school during a semester, no refund of tuition is allowed except in case of his own protracted illness, when one half of the tuition for the unexpired portion of the semester will be refunded. The request for this refund must be accompanied by a physician's certificate stating the inability of the student to continue his work.

SUMMARY OF EXPENSES

The following table exhibits three scales of expenditure for the college year, exclusive of furniture, clothing, travelling expenses, personal items and fees for laboratory science work.

	Low	Moderate	Liberal
Tuition	$40.00	$40.00	$40.00
Incidental fee	10.00	10.00	10.00
Room rent (Wright Hall)	36.00	54.00	63.00
Room rent (Pioneer Hall)	27.00	27.00	27.00
Board	100.00	120.00	150.00
Books and stationery...	10.00	15.00	25.00
Laundry	10.00	20.00	30.00
	$233.00	$286.00	$345.00

Some students pay their room rent by caring for the furnace and by doing other work in private homes; some earn board, or both room and board, by work in hotels, restaurants, and boarding houses. Many are paid for Saturday work in stores and elswhere. The young man having $100 can come to Alma with confidence that he can get through a college year and a college course, if he is willing to work hard. For young women the opportunities are less numerous than are those for young men, but many young women are earning a large part of their expenses. In general, a young woman must have at least $150 in order to be sure of getting through a year.

Excessive expenditures are discouraged and the influence of the College is steadily exerted in the direction of the "low" or "moderate" scale of expenses.

BUILDINGS AND EQUIPMENT

There are at present six academic buildings on the College campus: the Recitation Building, Wright Hall, the Library, Hood Museum, the Gymnasium, and Pioneer Hall. There is also the central heating plant.

Recitation Building

The Recitation Building contains the College offices, the chapel, twenty-two recitation rooms, laboratories, and department offices, and halls for the Zeta Sigma and Phi Phi Alpha literary societies.

Wright Hall

Wright Hall, the home provided for the young women thru the munificence of the late Ammi

W. Wright, in architectural appearance and in adaptation to its purposes is not excelled by any building of its kind in the country. It is built of paving brick, trimmed with stone, and is four stories in height above the basement, which is constructed of field stone. The interior finish is very pleasing and the arrangements for the comfort of the occupants are complete. Great care is being taken to surround this noble edifice with a fit setting of greensward, shrubbery and trees, that it may typify to successive generations of college students the ideal college home.

Pioneer Hall

Pioneer Hall, one of the two original college buildings, is the dormitory for young men. The building is heated by steam and lighted by electricity. Both shower and tub baths, together with ample toilet conveniences, are provided in the basement. The building has been entirely remodeled at a cost of nearly $9,000. It is as good a dormitory for men as is found in the state.

Students living in the building are loosely organized for government. They make their own regulations and enforce them, being advised by the president and a faculty committee. This form of government has been satisfactory.

The Library

The library building contains the stack room, the large and well-lighted reading room, and a separate history room. It is built of red brick trimmed with stone, is handsomely finished in hardwood, and is in all respects well adapted to its particular use.

In the Library building, besides the General Library, are the following special collections:

1. The Pollasky Law Library.
2. The Lucy Plum Mitchell Library of History and Political Economy.
3. The Sarah H. Lancashire Library of Fiction.
4. The Arthur Hill Library of Lincolniana.
5. The Joseph W. Ewing Memorial Library of Pedagogy and Education.
6. The Mary C. Gelston Library of Latin Language and Literature.
7. The David M. Cooper Memorial Library of Ethics and Theology.

These collections contain 26,228 volumes and a valuable collection of pamphlets. There has been an increase of 788 volumes during the past year.

The collection embraces a great variety of works in classical, English, and foreign literature, in biography and history, in the various sciences and arts, and is exceptionally well furnished with encyclopedias and complete sets of American and European reviews. The books are classified and arranged according to the Dewey system, and an index of authors, titles, and subjects places the contents of the Library at the command of all who are in search of information upon any subject.

Immediately adjoining the library stacks is the reading room, supplied with cases of reference books and the leading journals and periodicals of this country and England.

The law library, the gift of Marcus Pollasky, of Detroit, consists of nearly eight hundred volumes. During library hours it is accessible to members of the bar, who are cordially invited to avail themselves of its privileges.

The Library of Lincolniana, the gift of the late Hon. Arthur Hill of Saginaw, occupies a special case in the history room.

The Library is open daily from eight to twelve and from one to six except that on Saturday mornings it is closed until nine o'clock. The evening hours are from seven to nine o'clock on Tuesday and Thursday evenings.

Students may examine and use the books and periodicals during library hours, and may draw one book at a time to be taken away and returned in one week, and, if renewed, one week longer. Other persons are allowed to use the library and reading room freely, and on payment of an annual fee of $1.00 are permitted to draw books on an equal footing with the students. Transient visitors in town are charged twenty-five cents per month. Resident ministers of the gospel and their families are permitted to draw books free of charge. As a part of its work the Library offers its assistance without charge to high school instructors who are helping their pupils in the preparation of debates and orations. The Library will lend books to ministers who are reading along special lines, the only charge being the payment of postage. Suggestions relative to helpful books will be made to those who apply. For this service address librarian, Alma College, Alma, Mich.

During the past year the library has received donations of books and magazines from the United States Government, Library of Congress, Japan Society, U. S. Brewer's Association, Gladys Dershem, Dr. G. B. Randels, Dr. T. C. Blaisdell, Mrs. J. Clisbe, E. A. Wasson, State Government of Michigan, Slason Thompson, University of Michigan, J. W. S. Pierson, R. E. Flickinger, Carnegie Endowment for International Peace, P. Andrae, Longmans, Green and Co., Mrs. C. W. Yerington, Mr. T. E. Johnson, Fred L. Keeler, F. H. Warren, Mrs T. E. Johnson, College Debating League, Michigan Historical Commission.

FRANCIS A. HOOD MUSEUM

The Hood Museum of Natural History, the gift of Mrs. Francis A. Hood, of Saginaw, and of Mr. Frank Hood, of Marinette, Wis., was finished and dedicated in June, 1900. It is two stories and a basement in height, with slate roof, and is one of the finest structures on the campus. It has two large exhibition halls lighted to give the largest possible space for the display of the collections. In the basement are storerooms and laboratories for the preparation of specimens, making the building one of the most complete and convenient museum buildings in the state.

The cases in use in the museum are built of oak, constructed on plans furnished by the U. S. National Museum and are provided with adjustable shelves, dust and insect proof doors, etc. At present the geological and mineral collections are the only ones systematically installed. Additional cases for the Winchell collections of fossils and for the Albino deer, have been provided through the generosity of Mrs Francis A. Hood, of Saginaw, and Mr. Frank Hood, of Marinette, Wis.

The collections in the Museum are:

1. The Stillwell collection of Michigan birds and animals.
2. The W. S. Crawford collection of birds.
3. The Shroyer-Wilcox collection of palaeozoic fossils.
4. The Alexander Winchell collection of rocks, minerals, and fossils.
5. The general geological and mineral collection.
6. The William S. Cooper collection of shells, minerals, and butterflies.

The Stillwell collection was made by a former resident of Alma, most of the specimens being collected in the vicinity of the College and representing some species now extinct or very rare for this locality. It numbers nearly 300 specimens, and was obtained by purchase.

The W. S. Crawford collection was made by the donor in various parts of the United States, and has a variety of rare specimens of birds from Florida, Arizona, and Michigan.

The Shroyer-Wilcox collection is a systematic collection of palaeozoic fossils, those of the Cincinnati group of rocks being especially well represented. It is valuable as a supplement to the other collections of fossils in the museum. It was acquired by purchase.

The Alexander Winchell collection is the largest and most valuable acquisition of the museum. The collection is that gathered by Professor Winchell during his long and active life as a geologist and teacher, and contains over 6,000 specimens, many of which were collected in Michigan by Dr. Winchell and described by him. These type specimens have an especial value. The collection was presented by friends.

The general biological collection contains representative vertebrate and invertebrate animal material, most of it yet to be arranged for exhibition, which has been collected during the history of the College. It will occupy the upper hall of the museum. It is estimated to contain 2,000 specimens.

The general geological and mineral collection is installed in the east end of the lower hall of the museum and numbers 2,500 specimens. It has been obtained largely by small gifts from numerous friends.

THE GYMNASIUM

The gymnasium building contains the studio of the instructor in vocal music, the kindergarten rooms, the gymnasium, and an office. The rooms occupied by the kindergarten department are large and well-lighted, and in every respect are well arranged for both school and recitation purposes. The gymnasium occupies the entire upper floor of the edifice, and with its equipment of apparatus, the gift of Mr. John W. S. Pierson of Stanton, Mich., and Mr. Charles H. Davis of Saginaw, Mich., furnishes adequate facilities for athletic training. Here during the winter months, daily classes in physical culture offer the opportunity for that systematic training of the body which is so necessary to the health of the student. This work is required of freshmen and sophomores, and is open to all other students.

THE LABORATORIES

The equipment of the physics laboratory is ample for experimentation in mechanics, hydrostatics, light, heat, sound, and electricity. The laboratory is supplied with gas, water, tables, and other appliances which add materially to its facilities for scientific work.

The biological laboratory is furnished with all necessary apparatus for thoro and practical work. The equipment consists of a sufficient number of compound and simple microscopes, microtomes, paraffin baths, air and water nets, collecting boxes, etc., for individual field and laboratory work.

The chemical laboratories occupy the entire basement of the east wing of the recitation hall.

The general laboratory is filled up with tables, apparatus and chemicals, and will accommodate twenty-four students. Each desk is supplied with gas and water, re-agents, and necessary apparatus for hastening tedious processes as much as possible, and to convenience of arrangement.

The quantitative laboratory is equipped with three fine weighing balances, blast lamps, and combustion and crucible furnaces, and is provided with a large ventilating hood.

The organic laboratory has a good ventilating hood, balance, hot air and water ovens, Kieldahl's apparatus for the determination of nitrogen, fat extractors, a polariscope, and such other apparatus as is required for its work.

The chemical department also possesses a fine spectroscope and a sufficient amount of miscellaneous apparatus for thoro, practical work.

A reference library consisting of some of the latest chemical books is kept in the laboratory for the use of students.

A fine projecting and reflecting lantern has been added to the equipment of the laboratories.

DAVIS ATHLETIC FIELD

The generosity of Mr. Charles H. Davis, of Sagnaw, provided the College in 1902 with a modern athletic field. About five acres of the campus not far from the gymnasium was perfectly graded, drained, surrounded with a high board fence, and equipped with football field, baseball diamond, quarter-mile cinder track, bleachers, and a grandstand. Water mains bring running water to the field. Outside the field are several tennis courts. In 1912 Mr. Davis added an imposing entrance gate, which renders the field one of the most attractive as well as one of the most adequate among the college fields of the Middle West.

RELIGIOUS ORGANIZATIONS

Thruout the College history, Alma students have maintained a Young Men's and a Young Women's Christian Association. The members of these organizations strive to meet new students upon their arrival at Alma and assist them in registering, in finding rooms and in becoming comfortably located. At the opening of each semester they hold social affairs for the purpose of promoting acquaintance. A union religious meeting is held on Wednesday evenings and separate meetings on Sundays. These meetings aim to develop true manliness and womanliness and to make clear that real religion is a thing of works as well as of faith. The organizations maintain voluntary Bible classes and send out leaders to organize and conduct mission Sunday schools. A band of student volunteers for mission work is regularly maintained. The associations unite with the faculty in conducting special meetings during the college week of prayer. In February, 1916, the special speaker was the Rev. Paul R. Hickok, pastor of the Metropolitan Presbyterian Church, Washington, D. C. Christian manhood and womanhood is the aim of these associations. Consequently, they appeal to practically every student that comes to Alma.

ORATORY AND DEBATES

Alma College is a member of the Michigan Inter-Collegiate Oratorical Association, which conducts two contests, one for men and one for women, on the first Friday in March of each year. The College is also a member of the Alma-Hope-Olivet League and meets each of these colleges in debate annually. Preliminary trials to decide upon the contestants in the different competitions are scheduled during the year as follows:

Freshmen Oratorical Contest (men)............ First Friday in November
Freshmen Oratorical Contest (women)........ Second Friday in November
Men's Oratorical Contest....................... First Friday in December
Women's Oratorical Contest.................. Second Friday in December
Prohibition Contest....Third Friday in February
Women's Reading Contest..Third Friday in April

The management of these local contests is under the charge of the local Oratorical Association and Debating League.

LITERARY SOCIETIES

Two literary societies, Zeta Sigma and Phi Phi Alpha, are conducted by the young men of the College, and three, Alpha Theta, Philomathean and Froebel Club, by the young women. The aim of these societies is the development of a correct literary taste and of the power of precise and ready expression.

COLLEGE PUBLICATIONS

The Alma College Bulletin is published monthly by the College. This publication aims to keep the alumni, schoolmen, high school students, and friends in touch with the work, the progress, the needs, and the prospects of the College. It is sent without charge to all who may apply, either for single issues or for a place on the permanent mailing list. The College Catalog makes one of the issues, and the "Alma Alumnus" several others.

The Almanian is a student publication and is issued weekly during the college year. It is conducted by a board of editors who aim to make it a faithful reflector of college life in all its phases, as well as a consistent supporter of the interests of the institution from the standpoint of the student body.

The Maroon and Cream is the College annual published in May by the Junior class. It epitomizes the student activities of the year.

THE CLASSICAL CLUB

The Classical Club is conducted by the students of the ancient languages under the supervision of the instructors in Greek and Latin. The aim of the Club is the promotion of an interest in classical literature and archaeology. Meetings are usually held once a month during the college year.

THE SCIENCE CLUB

The Science Club was organized for general scientific research and for study in particular of the plants, animals and geology of the region in which the College is located. Meetings are held once a month during the college year.

THE LYCEUM COURSE

It is conceded that an important means of education is the popular lecture and entertainment course. Thru it all classes of the community are brought together for the purpose of hearing and enjoying the best talent on the public platform. Alma has had such a course in successful lege and the city. For the present year the following numbers constitute the course:

The Schumann Quintet.
Frances Ingram.
Ng Poon Chew.
Russell H. Conwell.
Burton Thatcher.
Zenola McLaren.
James A. Burns.

AID FOR STUDENTS

Students of limited means expecting to complete a regular course at Alma, can usually obtain reasonable aid upon application to the President, who will bring their cases to the consideration of the Committee on Aid to Students. This committee administers an all too small aid fund. Students partaking in this fund are expected ultimately to return the amount which they have received unless they enter into a life which is so purely missionary as to render such return a burden. No interest is asked, although often beneficiaries prefer to pay interest.

Generous-minded friends, even though they can give but little, can scarcely do better with their gifts than to add them to this student aid fund.

Students preparing for the ministry of the Presbyterian church can secure as much as $100 a year from the Board of Education, if they need help, and if they are recommended by their home presbytery.

The children of home and of foreign missionaries are granted scholarships yielding $30 per year when they are regular students of the College.

The College has forty-eight permanent scholarships, most of which yield $30 a year, besides a varying number of annual scholarships supported by Alma alumni organizations, by individuals, and by churches. These scholarships are administered in varying ways by the faculty committee. A few go to persons designated by the donors. A few are granted on a basis of excellent class work. Most, however, are awarded to students of promise who have real need of help. Scholarships are usually granted for a year. They may be withdrawn, however, at the end of the first semester if recipients fail to do satisfactory work. Holders of scholarships may be asked to render some form of service to the College.

Scholarships thus administered become a help to the College as well as to the student. The demand for scholarships is regularly greater than the supply. Friends, Sunday schools, churches, woman's clubs, or other organizations interested in helping young people, are invited to correspond with the President with reference to assuming a scholarship or part of a scholarship.

A number of students can usually find employment in the homes, stores, hotels, or boarding houses of Alma. The College, too, is at times able to give work to some young men and young women. Young men having a hundred dollars with which to begin a freshman year can usually complete a College course without interruption, provided they have health, energy, and a willingness to do faithful work. Young women should have at least fifty dollars more.

PERMANENT SCHOLARSHIPS

Permanent scholarships, most of them representing an endowment of $500 and yielding $30 per year in tuition, have been made available by generous friends of youth and of the College. The scholarships thus held are as follows:

Name.	Donor.
Mrs. C. P. Colvin	Mr. C. P. Colvin, Saginaw
Thomas Merrill	Mr. Thomas Merrill, Saginaw
Memorial Presbyterian Church	Rev. D. M. Cooper, Detroit
Laurense	Mr. Leonard Laurense, Detroit
Martha P. Seeley	Mr. John F. Seeley, Caro
Harry G. Kelton	Mr. and Mrs. J. M. Kelton, Bay City
Lucy Plum Mitchell	Prof. Jas. E. Mitchell, Alma
Louis Penoyer Memorial	Mrs. Emeline Penoyer, Saginaw
Edith M. Davis	Mrs. Edith M. Davis, Saginaw
Alba A. Hull	Mr. Alba A. Hull, Pontiac
Martha B. Heartt	Mr. William A. Heartt, Caro
William A. Heartt (four)	Mr. William A. Heartt, Caro
First Presbyterian Church	First Presby. Church, Saginaw
David M. Ladd, Memorial	U. P. and C. Church, Milford
Rachael W. Pierson	Mr. John W. S. Pierson, Stanton
Marion H. Plum	Mr. J. H. Plum, Indianapolis, Ind.
Helen Anderson Tanner	Mr. M. W. Tanner, Saginaw
Watson B. Robinson	Mr. James W. Robinson, Alma
Theodore D. Marsh	T. D. Marsh, D. D., Grand Rapids
Harriet Barton Wright, Memorial	Mrs. J. H. Lancashire, New York
Margaret N. Thorburn	Mr. Jas. T. Thorburn, Detroit
John Cameron	Trumbull Ave. Presby. Church, Detroit
J. Ambrose Wight	First Presbyterian Church, Bay City
Katherine M. Inglis	Mr. Thomas Merrill, Saginaw
Brownell (eight)	Mrs. Mary E. D. Brownell Estate, Detroit
William E. Rohlfs	Many friends
Grace Church, Saginaw	Mr. Thomas Merrill, Saginaw
Francis King	Mr. Francis King, Alma
M. S. Smith	Mrs. Helen Smith Deming, Detroit
Hazel B. Garland	Mr. Arthur Garland, Howell
Nathan B. Bradley	E. E. and F. W. Bradley, Bay City
Horace B. Silliman	Dr. Horace B. Silliman, Cohoes, N. Y.
John J. Cleveland	First Presbyterian Church, Detroit
Westminster	Westminster Presbyterian Church, Bay City
Frederic Conover	Mr. and Mrs. C. A. Conover, Coldwater
Gould (two)	Mrs. Helen Gould, Saginaw

UNIVERSITY FELLOWSHIP

The University of Michigan presents annually to a graduate of Alma a fellowship carrying an honorarium of $300. The recipient gives to the University some return in service, but has most of his time free to pursue advanced studies. The fellow is chosen by the Alma faculty. A member of the senior class or a graduate of not over four years' standing is eligible. Mr. H. O. Whittemore represented Alma in 1912-1913, studying landscape designing: Mr. Claude W. Satterlee in 1913-1914, studying mathematics; Miss Faith M. Welton in 1914-1915, studying Latin: Miss Bessie Seaver in 1915-1916, studying Latin.

HONOR SCHOLARSHIPS

The Silliman and Brownell Scholarships, each amounting to $50 in tuition and fees, are to be awarded annually at the close of the first semester to a young man and a young woman in the junior class of evangelical belief and exemplary conduct who have the highest scholarship records as determined by honor points in the studies of the freshman and sophomore years. These scholarships during 1915-1916 were awarded to Harry W. Staver and Bernice M. Ireland.

PRIZES

Greek Prize. The income of the Justin Marsh fund is awarded every second year to the student receiving the highest grade in New Testament Greek. This was last awarded to Miss Rose Carol Gray, '14.

Oratorical Prizes. Rev. W. H. Mason, pastor of the Presbyterian Church, Alma, offers a gold medal annually to the young man winning first place in an oratorical contest conducted under these conditions:

1. There must be at least six contestants.

2. The contest must take place before Christmas.

3. The winner may not contest a second time. He may, however, challenge another winner to determine which of them shall represent the College at the state contest.

This was awarded in 1915-1916 to Lester C. Doerr.

The donor offers a gold medal under similar conditions for a women's contest. In 1915-1916 it was awarded to Bernice M. Ireland.

ALUMNI ASSOCIATION

Officers and Directors

President.................James E. Mitchell, '93
Secretary-Treasurer......Stanley A. Graves, '10
Vice-President..............Sadie Messinger, '03
Ella Bittner, '12 Rev. J. Earl Webber, '05
Kendall P. Brooks, '97 Henry H. Soule, '03

The Association was formed by the class of '91. It has had a vigorous growth and has come to be regarded as an important and influential college organization. All graduates of the college are members of the Association.

In June, 1914, the constitution of the Association was changed by making the governing body consist of a board of seven directors, and by substituting annual gifts for the fomer dues.

The annual meeting of the Association is held on Tuesday of Commencement week, which has been designated as Alumni Day.

Alumni Club of Chicago

President................Rev. George A. Hill, '00
Vice-President ....Rev. David Martin
Secretary-Treasurer.............C. A. Monteith

The next annual meeting, February 16, 1917.

Alumni Club of Detroit

President................Stanley A. Graves, '10
Vice-President..........Adelbert H. Lindley, '11
Secretary-Treasurer........Anna L. Sebring, '12

The annual meeting, March 14, 1916.

Secretary's address, 2241 W. Grand Boulevard.

Alumni Club of New York

President...............Watson B. Robinson, '01
Vice-President.................Israel Himelhoch
Secretary-Treasurer.........E. Blake McDonald

The annual meeting, the first Friday in May.

Secretary's address, 420 W. 57th street, New York.

Alumnae Association of the Kindergarten Training Department

President ......Mrs. Kate Coddington, '03, Alma
Sec'y-Treas...Miss Edna Swigart, '01, Ann Arbor

DEGREES CONFERRED

At the Commencement of the College held June 10, 1915, the following degrees were conferred:

Honorary Degree

The Degree of Doctor of Divinity Upon

Charles Ernest Scott...........Tsingtau, China

Degrees Upon Examination

The Degree of Bachelor of Arts Upon

Margaret Bertine Allen	Alma
Mary Blaisdell	Alma
Maurice Cole, **magna cum laude**	Paw Paw
Sidney Perry Cook	Alma
Gladys Noll Dershem, **magna cum laude**	Chicago Ill.
Theodore Gates, **cum laude**	Vestaburg
Clarence Goodrich, **cum laude**	Grand Rapids
Esther Halverson	Newberry
Lula Mae Huber, **cum laude**	Stanton
Joseph Leroy Kennedy	Chicago, Ill.
Bryson A. McCloy, **cum laude**	Fairgrove
Beulah Parr	Alma
Arthur Hartt Simenton	Marlette
Esther Smith	Alma
Ethel Grace Thompson **cum laude**	Caseville
Addison Vincent Wilson	Alma
Alger H. Wood	Alma

The Degree of Bachelor of Science Upon

Paul Henry Austin	Monroe
Albert James Esselstyn, **cum laude**	Lansing
Harry Donovan Jackson	Alma
Ilma E. Johnson, **cum laude**	Grand Ledge
Ralph Edgar Peacock	Marseilles, O.

College Honors

Salutatory	Maurice Cole
History-Economics	Maurice Cole
Mathematics-Chemistry	Clarence R. Goodrich
German-History	Lulu Mae Huber
Chemistry-Biology	Albert James Esselstyn
Silliman Scholar	Sidney Perry Cook
Brownell Scholar	Gladys Noll Dershem
Valedictory	Gladys Noll Dershem

CERTFICATES GRANTED

At the Commencement of the College held June 10, 1915, certificates were granted as follows:

A State Teacher's Certificate to

Margaret Bertine Allen
Paul H. Austin
Mary Blaisdell
Maurice Cole
Gladys Noll Dershem
Albert J. Esselstyn
Theodore Gates
Esther Halverson
Lula M. Huber
Harry D. Jackson
Milton Jackson
Ilma E. Johnson
Bryson A. McCloy
Beulah Parr
Arthur H. Simenton
Esther Smith
Ethel G. Thompson
Addison V. Wilson
Alger H. Wood

A State Kindergarten Certificate to

Irene Lucile Baker
Helen B. Eames
Aura Mae Funnell
Jane Stuart Green
Jessie Jane Duncanson
Hazel Margretta DuLong
Flossie B. Hoover
Gladys Kelley
Mary Ellen Mitchell
Eloise Muncie
Vera Parker
Margaret Robinson
Marie Pegg
Frida Volz
Irene Warner

A Certificate in Music to

Mary Rose (piano and voice), Florence Woodruff (voice), Lillian Goll (music and drawing), C. Bope Butler (voice), Lorna Woodruff (music and drawing), Velma Gilmore (music and drawing).

CASH CONTRIBUTIONS

(February 1, 1915 to February 1, 1916)

Individuals:—

Mrs. Jotham Allen, C. Frank Angell, Mrs. E. O. Barstow, Thos. C. Blaisdell, J. S. Brigham, S. A. Buchanan, Maynard A. Cook, P. W. Creaser, James

Curran, Mrs. William Elliot, "Friend," Donna I. Hill, J. L. Hudson, A. W. Johnstone, Ph. D., Mrs. F. A. Kendrick, Mrs. Sarah H. Lancashire, J. A. Long, Hollis McBurney, Chas. Moore, Henry M. Morey, Jos. T. Northon, R. S. Parks, Alfred F. Pratt, T. E. Rankin, Fred Rowland, Mrs. I. S. Seaver, Elizabeth Seaver, L. A. Sharp, Olive J. Smith, Rev. W. K. Spencer, Louise Strange, H. Taylor, Wm. B. Wilson, Wm. Winton.

Presbyterian Churches:—

Allegan; Alma; Bad Axe; Bay City, First; Blissfield; Brooklyn; Calumet; Caro; Charlevoix; Detroit: Cadillac Ave., Central, Covenant, Immanuel, Jefferson Ave., Memorial, Scovel Memorial, Westminster; Dimondale; East Jordan; Edwardsburg; Elk Rapids; Evart; Flint, First; Fraser; Grand Haven; Grand Rapids, First; Harbor Springs; Highland Park; Howell; Jackson, First; Kalamazoo, First; LaSalle; Lansing, Franklin Ave.; Marlette; Marlette, Second; Marquette; Marshall; Menominee; Montague; Mt. Clemens; Mundy; Northville; Palmyra; Plymouth; Port Huron, First; Plainfield; Redford; St. Ignace; Saginaw, First; Sandusky; Sault Ste. Marie; Spring Lake; Stockbridge; Three Rivers; Ubly; Yale.

Presbyterian Sunday Schools:—

Alpena; Bay City, First; Cass City; Monroe; Springfield; Bay City, First, Young Men's Class; Alma School of Methods.

Annual Scholarships

Have been contributed by Mrs. L. M. Curtis, Mrs. Louisa Y. King, Mr. F. N. Lowry, Mr. Lewis G. Seeley; Albion Presbyterian Church, Tecumseh Presbyterian Church, Saginaw, Warren Ave. Presbyterian Church, Bay City First Presbyterian Men's Class.

The Register of Students

CANDIDATE FOR M. A.

Hurd Allyn Drake, '11....................Napoleon, O.

SENIORS

Oscar M. Anderson.............................Omena
History and Economics

Edward Bahlke ....Alma
History and Economics

Alonzo Wallace Beshgetoor.......................Alma
Chemistry and Mathematics

Marcia Ann Carl ....Howell
English and German

Ralph Chisholm ....Breckenridge
History and Economics

Auda Cleo Gill ....Pelston
Mathematics and History

Bernice Ireland ....Grand Ledge
English and Latin

T. E. Johnson ....Coldwater
History and Philosophy

Otha McCracken ....Alden
English and German

Montie McFarlane ....Linwood
Mathematics and Chemistry

Arthur John McIntyre...........................Alma
History and Chemistry

T. Lucille McQuade...........................Detroit
History and English

Alfred Garlock Papworth.......................Howell
Chemistry and Biology

Marion Louise Parsons....................Charlevoix
English and German

Thomas Arnold Robinson........................Alma
History and Economics

Ruth Stacy........................Coshocton, Ohio
Biology and Education

Harry Staver........................Saginaw
English and Latin

Verne Levi VanDuzen........................Breckenridge
Mathematics and Biology

JUNIORS

Morton G. Ault........................Alma
History and Biology

Ernest Bacon........................Alma
English and History

Martha Adelaide Ballou........................Stanton
History and Mathematics

Ray V. Beshgetoor........................Alma
Mathematics and Physics

Ray E. Cheney........................Ithaca
Mathematics and Chemistry

Annawave Coleman........................Hastings
Latin and English

Lester C. Doerr........................Traverse City
English and Economics

Amoretta M. DeWitt........................Spring Lake
German and History

Isadore Friedman........................Tawas City
Mathematics and German

Clarence J. Halteman........................St. Louis
Mathematics and Physics

Edward Guy Johnston........................Yale
History and Economics

Robert Eugene McAllister........................Oak Park, Ill.
History and Economics

Pauline Markham........................Charlevoix
English and Biology

Fred Porter........................Alma
Chemistry and Physics

Lydia Resseguie.............................Middleton
Pedagogy
Wilhelmine A. Ritter....................New York City
English and German
Chester Roy Robinson.........................Plainwell
History and Philosophy
Mary Elizabeth Rubert.........................Howell
History and English
Errol Ruddock Stafford.........................Cadillac
Chemistry and Biology
Elfleda Udelle...................................Alma
English and History
Edna Ward..................................Charlevoix
Mathematics and German

SOPHOMORES

Eva L. Ackley.................................Howell
Helen Charlotte Baker.........................Bay City
Olive M. Batie...............................Bad Axe
Efford Beverly.................................Alma
Edward Frank Bittner...........................Alma
Helen Bradfield.................................Yale
Christina E. Bromley.........................Mecosta
Bess C. Brown...............................Farwell
Edna Campbell..................................Alma
Fay G. Carpenter...............................Wixom
Earl H. Coleman.............................Hastings
Ermah A. Colling............................Mayville
Zella M. Comer.........................Deming, N. M.
Marion Elsie Cooper..........................Lansing
Ralph W. Craig.......................Sault Ste. Marie
Elizabeth L. Creaser...........................Alma
Clifford Cummings..............................Alma
Chas. D. Depew.................................Caro
Mary DeRousie...............................Detroit
Lillian DesJardins............................Lapeer
M. Marie Doane.................................Alma
Walter O. Dow...........................Boyne City

Homer Dunham	Alma
Violet G. Elliott	Elkton
Lula E. Ellis	Alma
George Leland Fitch	Marlette
Gordon M. French	Petoskey
Russell Gaffney	Alma
Tacitus P. Gies	Reese
Lee D. Harris	Hudson
Beryl Hazelton	Imlay City
Ruth Hooper	Alma
Merrill Hyde	Addison
Clarence P. Jessup	Alma
Chas. B. Kennedy	Chicago, Ill.
Harold H. Lampman	Shepherd
Edith E. Layer	Unionville
R. Lucille Lott	Holt
J. A. Bannerman MacAuley	Calumet
Linton Melvin	Detour
Eva M. Merrill	Breckenridge
Leo Miller	Hudson
Guy E. Milligan	Breckenridge
Helen K. Mitchell	Harrisville
William J. Murphy	Alma
Gladys Myers	Owosso
Robert B. Notestein	Alma
William H. Piepenburg	Detroit
Edna M. Pino	Ithaca
Laura E. Rather	Alma
Vera G. Reid	Lapeer
Irene R. Remington	Norwalk, Ohio
Verne R. Richards	Detroit
Esther B. Ricketts	Pana, Ill.
Hazel M. Rubert	Howell
Lewis Sarvis	Detroit
Eliud Sanchez	Pajarito, N. M.
J. Ross Schermerhorn	Bad Axe
Emily Slocum	Mt. Clemens
Donald B. Smith	Alma

Mark Spinney	Alma
Carl M. Street	Wheeler
Bernice Sweet	Alma
Hazel Tuck	Marlette
Cecil C. VanNatter	Traverse City
Melvin R. Vender	Bad Axe
Martha D. Volz	Saginaw
Gladys C. Watkins	Milford
Ruth Weston	Sault Ste. Marie
Marion E. Westover	Cadillac
Kirby Wilkins	Alma
Ethel G. Zipp	Bay Shore

FRESHMEN

Emerson Ardis	McBain
Frank Barnard	Mt. Pleasant
Carrie Louise Beck	Detroit
Wm. M. Blair	Elm Hall
William G. Brewbaker	Alma
Howard S. Burtch	Howell
Alton C. Case	Benzonia
Hollis R. Clark	Alma
Robert J. Clegg	St. Louis
Victor L. Colson	Grand Haven
Harold Martin Coon	Roscommon
Ruth Craker	Omena
Myrddyn C. Davies	Peckerville, Pa.
Hugo Otto Dietzel	Turning
Ellen L. Doty	Breckenridge
Ruth Laura Dutt	Alma
Edna E. Elsie	Lapeer
Jane M. Ferguson	Sault Ste. Marie
Grace E. Fairbairn	Highland Park
James A. Foote	Grand Ledge
Florence E. Friese	Newberry
William G. Fulcher	St. Louis
Erma Gail Gates	Bay City
Catherine L. Goodwillie	Detroit

Phyllis M. Goschenhofer	Detroit
Vernie Davis Green	Deckerville
Josephine Hall	Grand Ledge
Geo. Rennels Harrington	St. Louis
Susie S. Harris	Breckenridge
George Alban Hebert	Grand Marais
Lillian May Hildreth	St. Louis
Florence Viola Howe	Paw Paw
Thomas F. Jackson	Chicago, Ill.
Emerson Johnson	Sunfield
Emma Jane Keller	Sault Ste. Marie
Beatrice E. Koepfgen	Cass City
Ellen Marie Lind	Bay City
Floyd Lee Maltby	Munger
Mildred L. McConkey	Alma
Ernest C. McKenzie	Harbor Beach
Laura Irene Miller	Alma
Iva E. Nunn	St. Louis
Ruth Oliver	Wayland
Fred E. Parker	Caro
Gertrude Rebekah Peters	Tecumseh
Howard F. Peters	Flownfield
Gene Ramsdell	Manistee
Josephine Reiser	Cadillac
Nina M. Resseguie	Middleton
Charles L. Robinson	Grand Haven
Hope Rose	Ashley
Rowena Rose	Traverse City
Clinton F. Seeley	Caro
Malcom Smith	Alma
Norman Smith	Marlette
Ruth Pauline Smith	St. Louis
Carlton M. Spooner	Ithaca
Bertha T. Swanson	Newberry
Fred W. Thurau	Bay City
Stanley A. Warner	Howell
Verne Rolland Wight	St. Louis
Alice Marion Yerkes	Northville

IRREGULARS

Jean V. Hatch	Cleveland, O.
M. Lucille Hitchcock	Decatur, Ill.
Guy A. Lockwood	Alma
Emma Wales	Detroit
Katherine H. Waninger	Detroit

MUSIC STUDENTS

Voice

Lena Beverly	Alma
Gladys Bradner	Oakland, Cal.
Ruth Craker	Omena
Hazel Durkee	Crystal
Russell Gaffney	Alma
Vernie Green	Deckerville
Katherine Gray	Breckenridge
Paul Harrod	Ithaca
Beryl Hazelton	Imlay City
Janet G. Hubbell	Milford
Mrs. I. J. Lyons	Alma
Robert McAllister	Oak Park, Ill.
J. B. MacAuley	Calumet
Merle McKay	Brown City
Pauline Markham	Charlevoix
Mrs. J. McKenzie	Alma
Mrs. F. Maxwell	Alma
Elizabeth Newbrough	Columbus, Ohio
Rosalie Netzorg	Elsie
Ruth Palmer	North Star
Fred Parker	Caro
Edith Platt	Vestaburg
Hope Rose	Ashley
Juanita Sebring	Bannister
Clinton Seeley	Caro
Bertha Sexton	Breckenridge
Donald Smith	Alma

Mrs. L. H. Stebbins	Sheridan
Thelma Stevens	Breckenridge
Carl Street	Wheeler
Fred Thurau	Bay City
Emily Slocum	Mt. Clemens

PIANO

Adelaide Ballou	Stanton
Eva Barnes	Charlotte
Louise Beck	Detroit
Christina Bromley	Mecosta
Laura Crandell	Alma
Theresa Crouse	Sheridan
Hazel Durkee	Crystal
Frances Galloway	Cheboygan
Phillis Goschenhofer	Detroit
Katherine Gray	Breckenridge
Vernie Green	Deckerville
Jean Hatch	Cleveland, Ohio
Beryl Hazelton	Imlay City
Mabel Henson	Ashley
Lucille Hodge	Breckenridge
Janet G. Hubbell	Milford
Ellen Lind	Bay City
Mrs. I. J. Lyons	Alma
Merle McKay	Brown City
Eva Merrill	Breckenridge
Lura Miller	Alma
Frank O. Moore	Alma
Sylvia Moore	Bannister
Maybelle Mudge	St. Louis
Gladys Myers	Owosso
Elizabeth Newbrough	Columbus, Ohio
Iva Nunn	St. Louis
Ethel Palmer	North Star
Edith Platt	Vestaburg
Violette Rather	Alma
Mabel A. Reed	Alma

Josephine Reiser	Cadillac
Nina Resseguie	Middleton
Juanita Sebring	Bannister
Mrs. L. H. Stebbins	Sheridan
Bertha Swanson	Newberry
Hazel Tuck	Marlette
Edna Ward	Charlevoix
Neola Wessel	Sumner
Alice Yerkes	Northville

STUDENTS IN SUMMER SESSION

1915

Mildred Allen	Alma
Marcia A. Carl	Howell
Cora Dunlap	Alma
Roy J. Gulick	Alma
Herbert E. Hurd	DeWitt
T. E. Johnson	Coldwater
Charles B. Kennedy	Chicago, Ill.
Alfred G. Papworth	Howell
Laura B. Rather	Alma
Thomas A. Robinson	Alma
Annette McLaren	Alma
Esther Smith	Alma
Floyd T. Smith	East Jordan
Olive Smith	Alma
Laura B. Soule	Alma
Harry W. Staver	Saginaw
Ruth Stacy	Coshocton, O.
Carl Titus	Alma
Alger Wood	Alma

EXTENSION WORK

Floyd Ferguson	Saginaw
T. E. Johnson	Coldwater
Leon W. Lauderbach	Grand Marais
Byron L. Odle	Onaway

SUMMARY

Candidate for M. A.	1
The College	178
The Summer Session, 1915	19
The Music Department	61
The College Entension Work	4
	263
Names counted twice	39
The total attendance for the year	224

LIST OF ALUMNI

CLASS OF 1891

Bernice Hunting, Missionary...............Tripoli, Syria
Temporary address...541 Lexington Ave., New York
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"Item—I hereby give, devise, and bequeath to Alma College, a corporation organized and existing under the laws of the State of Michigan, of Alma, Gratiot County, Michigan, the sum of................Dollars, to it absolutely."

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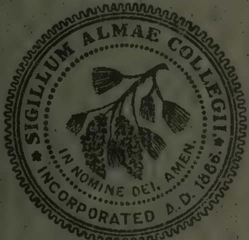

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Announcements for 1917-18

IN NOMINE DEI, AMEN

"Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

—Synod of Michigan, Grand Rapids, Oct. 14, 1886.

ALMA
COLLEGE

CATALOGUE
1916-1917

Announcements
1917-1918

ALMA, MICHIGAN

Calendar

1917

March	23	Friday	Second Term ends, 12 noon.
April	3	Tuesday	Third Term begins, 8 A. M.
May	4	Friday	Campus Day.
June	3	Sunday	Address before the Christian Associations, 3 P. M.
June	4	Monday	Final Examinations begin.
June	10	Sunday	Farewell Communion, 10 A. M.
			Baccalaureate Address, 7:30 P. M.
June	11	Monday	Class Day.
			Class Day Exercises, 8 P. M.
June	12	Tuesday	Alumni Day.
			Meeting of Board of Trustees, 10 A. M.
			Meeting of Alumni Association, 1 P. M.
			Senior Promenade, 8 P. M.
			President's Reception, 9 to 11 P. M.
June	13	Wednesday	Commencement Day.
			Commencement Exercises, 10 A. M.
			Commencement Luncheon, 1 P. M.

SUMMER VACATION

July	3		Training School for Christian Workers.
Sept.	17	Monday	Registration, 1:30-4:30 P. M.
Sept.	18	Tuesday	Registration continued.
			Late Registration Fee operative at 12 noon Wednesday.
Sept.	19	Wednesday	First Term begins, 9 A. M. Opening Address.
Oct.	15	Monday	Founders' Day.
Nov.	28	Wednesday	Thanksgiving Recess begins, 12 noon.
Dec.	3	Monday	Thanksgiving Recess ends 1:15 P. M.
Dec.	21	Friday	First Term ends, 12 noon.

WINTER VACATION

1918

Jan.	8	Tuesday	Second Term begins, 8 A. M.
Jan.	15	Tuesday	Mid-year Meeting of Board of Trustees.
Jan.	28	Monday	Semi-annual Examinations begin.
Feb.	1	Friday	First Semester ends.
Feb.	4	Monday	Second Semester begins.
Feb.	14	Thursday	Day of Prayer for Colleges.
March	22	Friday	Second Term ends, 12 noon.

SPRING VACATION

April	2	Tuesday	Third Term begins, 8 A. M.
June	12	Wednesday	Commencement Day.

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Rev. James M. Barkley, D. D., LL. D., President of the Board of Trustees. Address 144 Woodland Avenue, Detroit, Mich.

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The Faculty

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President. 801 West Superior Street.

*JOHN T. EWING, A. M., LITT. D.
Alexander Folsom Professor of Classics.
315 Grant Avenue.

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FRANK N. NOTESTEIN, Ph. D.
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Wright-Davis Professor of Chemistry; Secretary of the Faculty. 220 Maple Avenue.

HANSFORD M. MACCURDY, Ph. D.
Nathan B. Bradley Professor of Biology and Geology. 701 West Center Street.

GEORGE B. RANDELS, Ph. D.
Professor of Philosophy and Education. 301 Grant Avenue.

ALBERT P. COOK, A. M.
Assistant Professor of Latin. 611 West Center Street.

CHARLES D. BROKENSHIRE, A. M.
Synod of Michigan Professor of Biblical Literature and Religious Education. 502 West Superior Street.

H. LOTHAR BOBER, D. C. L.
Wells Professor of Modern Languages. 510 West Superior Street.

OTTO W. HEDGES, A. M.
Gelston Professor of English Speech. 602 Woodworth Avenue.

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*On Sabbatical leave of absence, 1916-1917

Charles A. Maney, M. Sc.
Professor of Physics. 312 Maple Avenue.
Elizabeth M. Roberts, A. M.
Dean of Women and Instructor in English. Wright Hall.
Margaret R. Foote, A. B.
Instructor in French. Wright Hall.
Caroleen Robinson,
Director of Kindergarten Training. Wright Hall.
Grace D. Roberts,
Piano and Pipe Organ. Wright Hall.
Reese F. Veatch,
Vocal Music and Harmony. 215 Philadelphia Ave.
Marguerite Conyne,
Instructor in Kindergarten Training. Wright Hall.
Harry W. Helmer, B. S.
Director of Physical Training for Men. 526 College Street.
May Hodgson,
Director of Physical Training for Women. Wright Hall.
Helen B. Cook, A. B.
Librarian and Instructor in Library Methods. 611 West Center Street.

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1916-17

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Crooks, Ewing, Cook.
Appointments.
Randels, Mitchell, Miss Robinson.
Athletics.
Randels, Crooks, Helmer.

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Cook, Notestein, MacCurdy, Miss Robinson.
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Crooks, Notestein, Veatch, Miss Robinson.
CURRICULUM.
Ewing, Mitchell, Randels, Maney, Brokenshire.
HONORARY DEGREES.
Crooks, Mitchell, Notestein, Bober.
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Ewing, Notestein, Miss Roberts, Miss Cook, Miss Foote.
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PIONEER HALL.
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SOCIAL LIFE.
Crooks, Dean Roberts, Dean Mitchell, Conyne, West.
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Brokenshire, Randels, Notestein, Dean Roberts.
TEACHERS.
Crooks, Mitchell, Ewing.

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ALMA COLLEGE

Historical Sketch

LOCATION

The city of Alma, in which Alma College is located, is in Gratiot County, in almost exactly the geographical center of the lower peninsula of Michigan. It is on the Pere Marquette Railway between Grand Rapids and Saginaw, being about eighty miles from the former city and forty from the latter. It is also on the Ann Arbor Railroad, 145 miles from Toledo and eighty miles from Cadillac. Alma has no saloons, Gratiot County having been "dry" since May, 1907.

With paved and well-shaded streets, boulevard lighting, a complete sewer system, city water, electric lights, an exceptionally efficient public school system with a new high school building costing $65,000, and with numerous churches, this city of about 7,000 people has proved itself to be an unusually healthful and morally uplifting community to which parents may safely entrust their children or to which they may move for the purpose of educating their children.

HISTORY

On a Sunday evening, in 1886, the Rev. J. Ambrose Wight preached a sermon from his pulpit in the First Presbyterian Church of Bay City, in which he emphasized the need of a Christian college in central Michigan. At the close of the service, Mr. Alexander Folsom said to Dr. Wight that he was ready to give $50,000 toward the founding of such a college. On September 28, 1886, the committee of the Synod met in Alma and received the formal offer of this gift. At the same time Mr. A. W. Wright offered, for the town, a campus on which two buildings for educational purposes had already been erected and furnished, the whole valued at $40,000. Other friends offered to provide for professorships for five years, to add to the endowment, to give toward current expenses, and to provide a library.

The committee made its report to the Synod in the Westminster Presbyterian Church at Grand Rapids on October 14, 1886, with the result that the Synod "Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

The doors of Alma College were opened to students on September 12, 1887. Thirty-four young men and young women registered the first day. The total attendance during the year was ninety-five.

The first president of Alma College was the Rev. George F. Hunting, D. D., who served until April 20, 1891. On June 16, 1891, his successor, the Rev. August F. Bruske, D. D., LL. D., was inaugurated and served in the office until July, 1912. He was succeeded by Thomas C. Blaisdell, Ph. D., LL. D., whose term of service ended August 20, 1915. President Harry Means Crooks, LL. D., entered upon his duties in November, 1915.

In the summer of 1888 a heating plant was erected; in 1889 a library building was completed; in 1895 the gymnasium was completed; the Hood Museum was dedicated in June, 1900. Wright Hall was completed and opened its doors as the home for young women in 1902. The Davis Athletic Field was graded and enclosed in 1902, while its beautiful entrance gate was erected in 1912. During the past three years the campus has been greatly beautified by a systematic planting of trees and shrubs, while Pioneer Hall has been thoroughly renovated at a large expense and other needed improvements have been made.

Alma College has a campus of thirty-six acres. This with the buildings is valued at $175,000. The college has an endowment of about $400,000.

The material progress of Alma has been made possible by a host of friends, foremost among whom will always be mentioned Mr. Ammi W. Wright. His total gifts in addition to the endowment, in Wright Hall, in library funds, and in the payment of current expenses aggregate about $400,000. The passing of Mr. Wright on May 5, 1912, was mourned by every friend of the College, and particularly by the thousands of young people who have been blessed in their educational privileges by his liberality.

Admission to the College

REQUIREMENTS FOR ADMISSION

Each applicant for admission must satisfy the college officials that he is of good moral character. If coming from another college, he must bring a letter of honorable dismissal.

Admission is gained by (1) certificate, or (2) examination.

1. Recommended graduates of accredited high schools are admitted unconditionally if they present at least three units in English and Literature, two units in a foreign language, one unit in Algebra, one in Geometry, and one in Science. The remainder of the fifteen required units may include any of the subjects customarily offered in accredited high schools, except that not over three units of vocational work will be accepted. A unit means five recitations each week for a school year, totaling not less than one hundred twenty, sixty-minute periods in the clear. Laboratory, drawing, or shop periods not less than two hours in length are counted as equivalent to one recitation period.

Graduates of accredited high schools who are unable to present, in full, the required units listed above, may be admitted conditionally. However, such students will not be recommended to other colleges and will not be graduated until such additional work is completed as may be necessary to fulfil the entrance requirements.

2. Examinations are held at the opening of each college year for applicants who have completed an amount of work equivalent to fifteen units, but who are not graduates of accredited high schools. The next examination will begin Monday, September 17, 1917.

Freshmen are admitted at the opening of the second semester, special arrangements being made for such matriculants.

All applicants for admission are urged to present at least two units in Latin.

Students of mature years, whose preparation is irregular, are permitted to enter classes for which they are prepared. They enter as special students, and are not regarded as candidates for a degree.

Graduates of accredited high schools who expect to enter Alma should secure from the College an application blank, or use the form inserted at the back of this catalog. This should be filled out by the principal and forwarded by him to the Registrar of the College. If accepted, the applicant will receive a statement from the Registrar entitling him to admission.

ADVANCED STANDING

A student bringing from an approved college a statement showing that he has completed a regular course of at least one year, will be admitted to equal standing in this College. Graduates of approved normal schools will be given full credit for completed work, provided they bring a duly certified statement of the subjects pursued.

No advanced credit is allowed for subjects studied in high school unless at least one semester of post-graduate high school work has been done.

Advanced standing in single subjects may be obtained by examination, which may be arranged for with the head of the department concerned.

REQUIREMENTS FOR GRADUATION

The standard unit of credit used in estimating college work is one recitation period a week for one semester, or one "semester-hour." In laboratory courses a two-hour period is considered equal to a one-hour recitation period. One hundred and twenty hours and two hours in Physical Training are required for graduation, making the average requirements per semester fifteen recitation periods a week. The recitation period is fifty-five minutes in length.

The subjects comprised in the college course of instruction are arranged in groups, each of which contains (a) certain subjects required of all students; (b) two major subjects; (c) general electives, the choice of which is unrestricted.

(a) The required subjects are: English, six hours; History, six hours; Science, six to eight hours; Philosophy, six hours; Biblical Literature, eight hours; Foreign Language, twelve to sixteen hours.

(b) In order to provide for intensive work the student is required by May first of his Sophomore year to choose a group of two major subjects in which, with certain prerequisite courses, he must secure a credit of forty hours. For the list of groups offered in 1917-18 see below.

(c) The remainder of the one hundred and twenty hours may be elected from any of the following departments of instruction of the College, due regard being paid to the limitations imposed by the program of recitations:

Astronomy
Biology
Chemistry
English
French
Geology
German
Greek
History
Latin
Mathematics
Music
Oratory
Pedagogy
Philosophy
Physics
Political Economy
Religious Education

The groups from which major subjects for 1917-18 may be chosen are:

I. Greek-Latin.
II. History-Economics.
III. English-A Modern Language.

IV. English-Latin.
V. Philosophy-A Modern Language.
VI. Latin-German.
VII. Mathematics-A Laboratory Science.
VIII. Chemistry-Biology.
IX. History-English.

Freshman Year

Required Subjects:

1. Bible 1, two hours, second semester.
2. English, three hours, each semester.
3. A foreign language (usually the one offered for entrance), four hours, each semester.

Optional Subjects:

1. Mathematics or science, three or four hours, each semester.
2. A second language, mathematics, science, or history, three or four hours, each semester.

Sophomore Year

Required Subjects:

1. Bible 2, two hours, first semester.
2. A second year in each foreign language taken in Freshman year, four hours, each semester.

Elective Subjects:

From five to nine hours in mathematics, science, or English, choice to be made from at least two subjects.

Junior and Senior Years

In the work of these years must be included two courses in Bible, two courses in philosophy, and the work in two majors, covering from twelve to fourteen hours each. The remainder of the sixty hours may be taken in general electives.

PREPARATION FOR PROFESSIONAL COURSES

Through the group system Alma College makes provision for a liberal education, as well as special preparation for students who have in mind future professional or technical courses. Professional study is largely a matter of memory unless the student has a knowledge of those subjects which underlie and give meaning to it.

The Ministry. The student who expects to pursue advanced studies in a divinity school, should major in the Greek-Latin group, with electives in philosophy, science, and sociology. Other electives to be considered are history, literature, and public speaking. The minister familiar with the details of athletic training has a distinct advantage in dealing with boys and young men.

Law. The best professional schools make a college course a prerequisite for entrance, and all good ones require at least two years of college preparation. The student who expects to enter upon the study of law should do his major work in the History-Economics group, with electives in philosophy, mathematics, public speaking, and sociology.

Medicine. The Chemistry-Biology group offers lines of major and elective work which are especially useful in preparation for the study of medicine. These departments are well equipped with facilities for laboratory work under competent instruction and offer a wide range of courses to pre-medical students.

A special course of one year covering Biology, Chemistry, Physics, and a modern language, has been arranged for the benefit of students going to a medical college which requires only one year of college work for admission.

Engineering. Students expecting to enter engineering schools should do major work in the Mathematics-Laboratory Science group. This offers a number of courses in the mathematics, sciences, and modern languages, which form a fundamental part of all engineering courses.

Teaching. The College makes a special provision for the needs of prospective teachers: (a) in its pedagogical courses, (b) in its special courses in the methods of teaching specific subjects, (c) in observation work and practice teaching, and (d) in its offer of a state teacher's certificate to those who meet the requirements of the pedagogical course. The student who expects to teach a particular subject, should choose it as one of his majors.

Courses of Instruction

ASTRONOMY

Dr. Notestein

The aim of this course is to give the student a general knowledge of descriptive astronomy. The instruction is based upon the use of a text-book, supplemented by lectures and the use of a telescope. Some time is given to the study of the heavens to enable the student to become acquainted with the names and positions of the principal stars and constellations. Three hours throughout the year.

BIBLICAL LITERATURE AND RELIGIOUS EDUCATION

Professor Brokenshire

1. **Old Testament History.** A study of the chief events and personages from the beginning of Sacred History to the times of Christ. The Biblical narratives themselves are studied as the source, supplemented by lectures and assigned readings on the data furnished by the contemporary monuments of Babylon, Assyria, and Egypt. Geography is also studied. so far as it pertains to the history. Attention is paid to prophetic activity and literature, the poetry, and the "Wisdom Literature" of the Old Testament. Two hours, second semester. Required of Freshmen.

2. **Gospel History.** The life of Christ is studied on the basis of the Gospels, attention being given to the historical trustworthiness of the Gospels, their re-

lations, their characteristics, and the harmony of their narratives. The journeys and events of Christ's ministry are studied in the light of the geographical and historical conditions of His time. Two hours, first semester. Required of Sophomores.

3. **Apostolic History.** The Acts of the Apostles and the epistolary literature of the New Testament are studied as primary sources. A discussion of the origin of the Christian Church, the life and work of Paul, and special introduction to the Acts of the Apostles and the Epistles. Two hours, first semester. Required of Juniors.

4. **Christian Doctrine.** A study of the fundamental doctrines of Holy Scripture, with emphasis on the essential agreement of the historic Christian Church and all evangelical denominations. Two hours, second semester. Required of Seniors.

Elective Courses

5. **The Bible as Literature.** Attention is directed to the literary beauties of the Bible, not only in the original texts as an Oriental classic, but especially in its translations as an all-pervasive, elevating force in English prose and poetry. Open to Juniors and Seniors. Two hours, second semester.

6. **Theism and Evidences of Christianity.** The apologetics of natural and revealed religion, the ultimate aim being to exhibit positively the reasonableness of Christianity as the supernatural and absolute religion, of which the Holy Scriptures are the divinely inspired record. Three hours, first semester. 1918-1919.

7. **Ethics.** A study of the history of Ethics, with a discussion of the principal types of ethical theory

and the problems of their practical application in the light of the Christian revelation. Three hours, second semester. 1917-1918.

8. **Church History.** A study of the career of the Christian Church in its relation to the other elements of the life of the world, with attention to the development of Christian doctrine and the interior life of the Church. Two hours, first semester. 1918-1919.

9. **History of Christian Missions.** A study of ancient, mediaeval, and modern missionary enterprise and biography, with special attention to the geography of modern missions and the elevating influence of Christianity as a force in individual and social life. Two hours, second semester. 1918-1919.

10. **Comparative Religion.** Origin, characteristics, historical development and social significance of the world's great religions, with emphasis on Christianity as the absolute religion. Three hours, first semester. 1917-1918.

11. **Christian Workers' Training Course.** A study of the history, agencies, principles, and methods of religious education and practical Christian work. Three hours, second semester. 1917-1918.

BIOLOGY

DR. MACCURDY

1 and 2. **General Biology.** The work in general biology is designed to give the student a knowledge of the general principles of biology developed from the study of typical forms of plants and animals. It also lays the foundation for more advanced work and helps to a better understanding of life phenomena and the literature which deals with biological subjects. In

addition to the general principles, emphasis is laid on the methods of observation and the interpretation of biological phenomena. The course is open to all College students. Two laboratory periods and two recitations throughout the year.

3. **Morphology and General Physiology of Plants.** This course includes a study of plant forms and their development, the development and relationship of the different members of the plant body, plant cells and cell structures, plant tissues and their development and functions. Emphasis is laid on the interrelations of structure and function. Such texts as Strasburger, Coulter and Barnes, Vines, Stevens, Zimmerman's Micro-technique, and others are useful in this course. Two laboratory periods and two recitations, first semester. 1917-1918.

4. **Ecological Botany.** The study of this course depends upon the satisfactory completion of Course 3. It includes the study of the biological relations of plants, their adaptations and the chief factors determining plant distribution and associations. Warming's Plant Ecology, Clement's Research Methods, and Cowles and such reading as is available form the basis of the course. Two recitations and four hours' laboratory or field work, second semester. 1917-1918.

5. **Field Zoology.** An introduction to the life relations of the more common forms, their habits, the identification and classification of important groups. Typical habitats and the forms inhabiting them are studied. The economic importance of certain groups such as insects and birds is of vital interest, and these claim particular attention. The class is limited in number and none should enter without permission from the instructor. Two hours, second semester.

6. **Comparative Anatomy of the Vertebrates.** Lectures and recitations on the comparative anatomy

and general physiology of vertebrates. The laboratory work is on vertebrate types, which are studied with special reference to human anatomy and physiology. The course is of value to those preparing to teach and of special interest to those preparing for the study of medicine, as well as of general interest to others. Such books as Wiederheim's Comparative Anatomy, Parker and Haswell's text-books of Zoology, vol. II, Jennings and Reighard's The Cat, are useful references. Two laboratory periods, and two recitations, first semester.

7. **Physiology and Histology.** This is supplementary to the work in the study of anatomy of the vertebrates, and is designed to include the general physiological processes, with emphasis on those of the most practical nature. A suitable text with reference work and laboratory practice makes up the course. The references include standard and recent texts on physiology, and in the laboratory standard methods of general histology are used. Four hours, second semester.

8. **General Bacteriology.** This is an introductory course dealing with the biology of bacteria and other micro-organisms. The importance of a knowledge of these forms is recognized in many branches of science and daily life. The common methods used in the study of bacteria are employed in the laboratory in the study of the bacteria of the household, foods, air and water. Emphasis is placed on the general physiological relations of bacteria, their distribution and relations to diseases. Buchanan's Household Bacteriology, or Frost and MacCampbell's General Bacteriology is the text, with a laboratory guide. Four hours, first semester, 1918-1919.

9. **Embryology.** A study of the segmentation and development of the germ layers and early develop-

ment of the principal structures of the vertebrate body. This is fundamental to a clear conception of many problems in biology. Two recitations and two laboratory periods, first semester. 1918-1919.

10. **Heredity and Eugenics.** Since the discovery of the Mendelian law great advances have been made in a knowledge of heredity. Both science and education have gained by this, in the application of a knowledge of these laws to biological, sociological, and educational problems. This course takes up the study of the method and laws of heredity, unit characters, pure lines, elimination of undesirable traits, and the development of new and desirable traits, and the application of the principles of heredity to economic and sociological problems. Two hours, second semester.

Courses 1 and 2 are fundamental and they or their equivalent should be taken as a year's work in general biology.

While freedom of electives beyond this is permitted, students should consult the instructor before enrolling.

The courses are planned to meet the needs of four groups of students:

I. Students wanting the humanistic and cultural value of a knowledge of biology; courses 1, 2, 5, 10, and 3 and 6 elective;

II. Those who expect to teach; courses 1, 2, 3, 5, 6, and 10;

III. Students preparing for the study of medicine; 1, 2, 6, 7, and 8, 9, 10 elective;

IV. Those looking toward work in science as a profession; courses as for II and III.

CHEMISTRY

PROFESSOR WEST

1. **General Inorganic Chemistry.** A beginning course which is open to all students of the college. Lectures based upon some good reference text as an outline. Two recitations and four hours' laboratory work. Second semester.

2. **The Chemistry of Life Principles and Processes.** This course is open to all women of the college who have had a course in beginning chemistry. May be taken as a two or four hour credit course. Students taking the course for two credits will have no laboratory work. The fundamental nature of chemistry makes it an important factor in the proper understanding of all life phenomena. Many topics relating to the health and to the home will be discussed and the course will form a foundation for future work in Home Economics. Two lectures and four hours' laboratory work. Second semester.

3. **Advanced Inorganic Chemistry.** A discussion of some of the more advanced problems and theories, together with suitable laboratory experiments. This course is open to all students who have had Course 1 or its equivalent. Two recitations and four hours' laboratory work. First semester.

4. **Qualitative Analysis.** This course deals with the separation and identification of the constituents of chemical compounds and mixtures by both the wet and dry methods. Open to all students who have had Courses 1 and 2 or their equivalent. Two recitations and four hours' laboratory work. Second semester.

5. **Quantitative Analysis.** Quantitative methods, both gravimetric and volumetric, for finding the percentage composition of chemical compounds and mix-

tures as well as commercial products. One recitation and six hours' laboratory work. First semester. 1918-1919. Prerequisite, Courses 1, 3, and 4.

6. **Organic Chemistry, Aliphatic Compounds.** Lectures based upon some good text as an outline together with laboratory work in making synthetic preparations such as ethers, chloroform, ethyl bromide, methyl amine, acetal chloride, etc. Prerequisites, Courses 3 and 4. Two recitations and four hours' laboratory work. First semester.

7. **Organic Chemistry, Aromatic Compounds.** A continuation of Course 6. Laboratory work in preparing such aromatic compounds as nitrobenzene, phenyl bromide, sulphanilic acid, aniline, dyes, etc. Two recitations and four hours' laboratory work. Second semester.

8. **Advanced Problems in Inorganic or Organic Chemistry.** Students who have completed the above courses may take up more advanced work in special fields such as soil analysis, food analysis, blow-pipe analysis, organic preparations, etc. In some of these fields a thesis will be required. Credit according to the amount of work done. First semester.

Courses 3, 4 and 6, 7 are year courses and no credit is given unless the full year's work is completed.

Students in the Kindergarten Training Course are required to take either Course 1 or Course 2. Second semester. Four hours' credit.

NOTE.—Fluctuations in the price of chemicals have been such that increased fees may be necessary in 1917. This increase, if made, will plan to cover cost only.

ECONOMICS AND SOCIAL SCIENCE

PROFESSOR MITCHELL

1. **Principles of Economics.** This course is designed to cover the more important portions of the general field of economics. The student is expected to assimilate the general principles of the subject and to be able to apply them to the discussion of practical questions. An excellent library of economics, containing the important treatises in English on the subject, is at hand, and students are required to use it freely. Three hours, throughout the year.

2. **Money and Banking.** A discussion of the theory and history of money and banking with special reference to the United States. The gold standard; bimetallism; fiat money; our present currency, functions of a bank; first United States Bank; second United States Bank; our present national banking system, including our new banking and currency act; a comparison of foreign banking systems with our own, especially those of England, France, Germany, Scotland, and Canada. Three hours, second semester. 1917-1918. Prerequisite, Course 1.

3. **Principles of Taxation.** The historical development of taxation; a study of the different kinds of taxes, as the general property tax, the single tax, inheritance tax, income tax; taxation of corporations; double taxation, together with recent reforms in taxation. Three hours, first semester. 1918-1919. Prerequisite, Course 1.

4. **Corporations.** A study of modern industrial combinations, their history in the United States from the pool to the trust and holding company. Attempts at control through the application of the Sherman anti-trust act and their results, together with recent legislation, will form a part of the course. Three hours, second semester. 1918-1919. Prerequisite, Course 1.

5. **Principles of Sociology.** An advanced general course. It includes an analysis and classification of social facts; discussion of the principles of social theory and the process of socialization; study of social feeling, public opinion and organized action; an inquiry into the causes of emotional epidemics, panics, mob violence, revolutions; an explanation of the growth of public opinion on great questions; an attempt to show from history and current events that public action is governed by definite laws of social change. Three hours, second semester. 1917-1918.

ENGLISH

English Language and Literature

Professor Hedges, Dean Roberts, Miss Foote

1. (a) **Rhetoric and Composition.** Study of the elements of effective writing. Practice in sentences and paragraphs, and in the methods of exposition, description, and narration. Frequent short themes and occasional long compositions. A list of prescribed reading in modern prose authors. Two hours, throughout the year. Required of all freshmen.

(b) **Oral Composition.** See English Speech Course No. 1.

2. **Chaucer and Middle English.** The greater part of the semester is devoted to the study of Chaucer. Two hours, first semester. 1917-1918.

3. **Shakespeare.** A careful study of eight of Shakespeare's plays. Three hours, second semester. 1917-1918.

4. **English Fiction.** This course includes a consideration of the history and development of English prose fiction from the earliest times to the present day. Extensive reading in the principal authors under dis-

cussion is required. Two hours, second semester. 1918-1919.

5. **Nineteenth Century Poetry.** A study of the chief poets, except Tennyson and Browning. Three hours, first semester. 1918-1919.

6. **Victorian Prose.** A study of the leading characteristics and tendencies of the Victorian period, as they are represented in the prose works of Carlyle, Newman, Ruskin, and Arnold. Two hours, second semester. 1917-1918.

7. **Browning.** Three hours, second semester. 1918-1919.

8. **Tennyson.** Three hours, second semester. 1919-1920.

9. **American Literature.** A study of the style and literary value of a number of famous American poems, essays, novels, etc. Two hours, second semester. 1917-1918.

10. **Contemporary Drama.** A study of twenty or thirty dramas written during recent years. Those from foreign languages will be read in translation. Two hours, first semester. 1918-1919.

11. **Literary Composition.** A study of leading forms of literature with practice construction. Two hours, first semester. 1918-1919.

12. **Types of Literature.** Detailed consideration, based on selected specimens of the history and technique of certain important types of English literature: ballad, lyric, epic, essay, short-story, and novel. Frequent reports and conferences. Three hours, first semester. 1917-1918.

ENGLISH SPEECH

PROFESSOR HEDGES

1. **Oral Composition.** Principles of effective speaking, Extemporaneous Speaking, Declamation, Argumentation. Each member of the class is required to write an oration and deliver it during the first semester. One hour, throughout the Freshmen year. Required of all freshmen.

2. **Public Speech.** This is a general utility course and is designed to deal with forms of public speech expected of those who mingle in public affairs. Two hours, second semester. 1917-1918.

3. **The Oration.** A course in the study and writing of orations. This course is especially designed for students intending to take part in the various oratorical contests. Three hours, first semester. 1917-1918.

4. **Argumentation.** Consideration is given to the principles of argument, evidence, proof, and brief-drawing. Three hours, first semester. 1917-1918.

5. **Debating.** The greater part of the work in this course will consist of the practical discussion of problems of the day, and especially the question for inter-collegiate debate. Two hours, second semester. 1917-1918.

FRENCH

MISS FOOTE

French 1 for Beginners. Chief emphasis is laid on constant conversational practice in class, in order to train the student's ear in acquiring the proper pronunciation, on sentence construction in order to acquire the most useful vocabulary for every-day purposes and to accustom the students to think in the language. Grammar, translations into English, conversational exercises and translations into French as in the first twenty-three lessons of Fraser and Squair's Method. Four hours, first semester.

French 2. Lessons 24 to 40 of the Fraser and Squair's Method. Reading in class of some easy French novel or short stories with conversational exercises based on the text; for 1917-1918, "Mon oncle et mon curé" by J. de la Brède. Four hours, second semester.

French 3 and 4. French Grammar and Composition with conversational exercises; text-book, Francois' Advanced French Prose Composition. Short stories of the greatest authors of the nineteenth century; for 1917-1918, "Specimens of French Prose," by Berthon, "Specimens of French Poetry of the Nineteenth Century," by Berthon; students will have to memorize different passages for oral examination. Reading in class of some French comedy with conversational exercises based on the text; for 1917-1918, "Les demoiselles de Saint Cyr" by Dumas. Four hours, throughout the year.

French 5 and 6. Composition, conversational exercises and narration; text-book, "Second Course of French Composition for Advanced Students," by Eugène Fasnacht. French idioms practiced in class; text-book, "Exercises on French Idioms," by Chardenal. History of French Literature in the Nineteenth Century; text-book, "Sept Grands Autheurs du XIX Siècle" by Fortier. Three French works will be read (chiefly in class); for 1917-1918, Victor Hugo's "Hernani," A. de Musset's "Il faut qu'une Porte soit ouverte ou Fermée," Théoph. Gautier's "Jettatura." Four hours, throughout the year.

French 7 and 8. History of French Literature. Briefly: Formation de la langue française, Littérature provençale, Littérature de la langue d'oil, Troubadours, Trouvères, Drames religieux, Soties, Moralités, Farces, Ronsard, Malherbe. More fully: The XVII and XVIII Centuries; Corneille, Descartes, Racine, Pascal, Boileau, Molière, La Fontaine, Mme. de Sévigné, Fénëlon, Montesquieu, Buffon, Voltaire, J. J. Rousseau. French idioms in conversational exercises practiced in class (contined from third year). Private and business letters. Short essays on the works of authors read in class and in private; for 1917-1918, Montesquieu's "Grandeur et décadence des Romains" (Extrait), Voltaire's "Zadig," J. J. Rousseau's "Discours sur l'origine de l'inégalité permi les hommes."

French 9. Teacher's course. Students looking forward to the teaching of French will be trained in the Comenian method or the Berlitz method. One hour, first semester.

GEOLOGY

Dr. MacCurdy

This course is planned to give a general knowledge of geology by study of the geological changes of the present and by presenting the chief facts and theories. A fair knowledge of dynamic, structural, and historical geology is sought, attention being given to the geology of the North American continent and the geological history of Michigan. A good collection of minerals, rocks, and fossils is available for laboratory work. The course includes the use of a manual, lectures, selected readings, laboratory work, and field studies. Three hours, two semesters. 1918-1919.

GERMAN

DR. BOBER

German 1 for Beginners. Chief emphasis is laid on constant conversational practice in class in order to train the student's ear in acquiring the proper pronunciation, on sentence construction in order to acquire the most useful vocabulary for every-day purposes, and to accustom the student to think in the language. Grammar, translations into English, conversational exercises and translations into German as in the first twenty-two lessons of the Comenian Method. Four hours, first semester.

German 2. Exercises pp. 119 to the end of Bernstroff's German Grammar. Reading in class of some easy German novel or short stories with conversational exercises based on the text. For 1917-1918, "Immensee" by Storm. Four hours, second semester.

German 3 and 4. Prerequisite courses 1 and 2 or two entrance units. German Grammar and Composition with conversational exercises; text-book, Tuscott and Smith's German Composition. Short stories of modern German prose; for 1917-1918, "Auf der Sonnenseite." Specimens of German poetry, from Uhland, Buerger, Gerok, Heine, Goethe. (Students will have to memorize different passages for oral examinations.) Reading in class of some German comedy with conversational exercises based on the text; for 1917-1918, "Die Schulreiterin." Four hours, throughout the year.

German 5 and 6. Composition, conversational exercises and narration, text-book, First and Second Part of Pope's German Composition. German Idioms, practiced in class; text-book, Taker and Roget's German Idioms. History of German Literature, from the Storm and Stress Period to 1832; text-book, Deutsche

Litteratur—Geschichte by Bernhardt. Three German works will be read (chiefly in class); for 1917-1918 Lessing's "Minna von Barnhelm," Schiller's "Marie Stuart," and Goethe's "Werther's Leiden." Four hours, throughout the year.

German 7 and 8. History of German Literature. Briefly: the earliest information about the Germans, *e. g.* Tacitus. Alt-Germanische Sprach—und Litteratur Denkmaeler, Volks—und Hoefische Dichtung, Minnesaenger, Meistersaenger, Satirsche und didaktische Dichtung der Reformations-Zeit, Volks-Buecher, Einflusz der Sprach-Gesellschaften, Dichter-Schulen, Leipzig, Zuerich. Das moderne deutsche Maerchen und Problem Drama, Ausgesuchte Werke von Fulda, Sudermann, und Hauptmann. German idioms in conversational exercises practiced in class (continued from third year); private and business letters, short essays on the works of authors read in class and in private; for 1917-1918 Fulda's "Talisman," Sudermann's "Ehre," and Hauptmann's "Die versunkene Glocke." Three hours, throughout the year.

German 9 and 10. Faust, Part I. This course is open only for students who have studied History of German Literature, particularly Goethe's Life. The Faust Book and Marlow's Faust. Two hours, throughout the year.

German 11. Teacher's course. Students looking forward to the teaching of German will be trained in the Comenian method or the Berlitz method. One hour, first semester.

GREEK

DR. EWING

1. **Elementary Greek.** White's First Greek Book. Five hours, first semester.

2. **Xenophon's Anabasis.** Prose composition. Five hours, second semester.

3. **Colson's Reader.** Selections from Herodotus; Greek literature; prose composition. Four hours, first semester. Prerequisite, Course 2.

4. **Homer.** Book I of the Iliad translated and the forms and metrical peculiarities carefully studied; rapid reading of the most interesting portions of the text with frequent practice in sight translation; topical study of the Homeric Age; Greek literature. Four hours, second semester. Prerequisite, Course. 3.

Elective Courses

5. **Lyric Poetry.** A study of the various forms of the lyric as a connecting link between the epic and the drama. Four hours first semester. Prerequisite, Courses 3 and 4.

6. **Dramatic Poetry.** The reading of selected plays; lectures on the origin and development of the drama; Greek literature. Four hours, second semester. Prerequisite, Course 5.

7. **Herodotus, Thucydides, Xenophon.** Notes on Greek constitutional development, illustrated by copious readings. Four hours, first semester. Prerequisite, Courses 3 and 4.

8. **Lysias, Demosthenes.** A study of the history and influence of Greek oratory. Four hours, second semester. Prerequisite, Courses 3 and 4. Courses 7 and 8 alternate with Courses 5 and 6.

9. **Plato; Xenophon.** Selections from Plato's Apology, Crito, and Phaedo, and the Memorabilia of Xenophon; outlines of Greek philosophy. Three hours, first semester.

10. **Theocritus; Lucian.** Studies in the later literature. Three hours, second semester.

11. **Greek Life and Art.** A study of the civilization of the Greeks and its influence upon later peoples and times, by means of lectures and supplementary readings, and illustrated by the use of the lantern. A knowledge of Greek is not necessary for this course. Three hours, second semester.

12. **Greek Literature in English.** A reading of Greek masterpieces in translation supplemented by lectures on the development of literary form among the Greeks. This course alternates with Course 11. Three hours, second semester. 1918-1919.

13. **The Greek in English.** A brief course in the elements of the language, primarily for the benefit of scientific students in acquiring a better knowledge of the terminology of science. Three hours, first semester.

14. **New Testament Greek.** A careful study of Hellenistic Greek based upon the Gospel of Luke. This course alternates with Course 13. Three hours, first semester. 1918-1919.

The major in Greek must include, in addition to Courses 3 and 4, twelve hours to be selected from Courses 5-10 and 14.

HISTORY AND POLITICAL SCIENCE

PROFESSOR MITCHELL

1. **European History.** From the Fall of the Roman Empire in the West to the Peace of Westphalia, 1648. Three hours, first semester.

2. **European History.** From the Peace of Westphalia to the present time. Three hours, second semester.

3. **The History of Europe since 1870.** Open to those who have taken Courses 1 and 2. Three hours, throughout the year. 1918-1919.

4. **History of England.** Political and Constitutional. Three hours, throughout the year. 1917-1918.

5. **History of the United States.** Colonial and Revolutionary Periods, 1492-1789. Three hours, first semester. 1917-1918. Prerequisite, Courses 1 and 2.

6. **History of the United States.** National Development and the Slavery Question, 1789-1861. Three hours, second semester. 1917-1918.

7. **History of the United States.** The Civil War and Reconstruction, 1861-1876. Three hours, first semester. 1918-1919. Prerequisite, Courses 5 and 6.

8. **Greek History.** From the earliest times to the death of Alexander. Three hours, first semester. 1917-1918.

9. **Roman History.** From the earliest times to the barbarian invasions. Three hours, second semester. 1917-1918.

10. **The State.** A discussion of the origin, forms, and ends of the state, together with a history of the formation of the constitutions of England, France, Germany, and the United States. Three hours, first

semester. Prerequisite, Courses 1 and 2. 1918-1919.

11. **Political Philosophy.** A history of political theories from Plato to Luther. Open to those who have taken Courses 1 and 2 in History. Three hours, first semester. 1918-1919.

12. **Political Philosophy.** A history of political theories from Luther to Montesquieu. Open to those who have taken Course 11. Three hours, second semester. 1918-1919.

13. **American Government.** An analysis of the nature, structure, and working of the Federal Government and a comparison with foreign systems. Three hours, second semester. 1918-1919.

14. **European Governments.** A study of the governments of England, France, Germany, and Italy. Three hours, throughout the year. 1918-1919.

KINDERGARTEN TRAINING

Miss Robinson and Miss Conyne

1. **Kindergarten Theory 1.** This course covers a study of the theory of (a) Plays and games, (b) Child study, (c) Story work, (d) Hygiene. Three hours, throughout the Freshman year.

2. **Kindergarten Theory 2.** This course involves a study of the organization of the Kindergarten program in relation to the selection and unification of child impulses, interests, and educative stimuli. Students will submit plans of work for class discussion and criticism. Each student will also write a year's outline including the use of the various instrumentalities of the Kindergarten, such as songs, games, stories, arts, excursions, etc. One hour, throughout Sophomore year.

3. **Kindergarten Technics 1.** The Frobelian gifts are studied with special reference to their technic, the aim being to develop skill and ability in their use as material. Two hours, first semester, Freshman year.

Kindergarten Technics 2. The second semester is given to a study of traditional street games with special emphasis on their simplification and adaptability to use in the Kindergarten and in the playground. One hour, second semester, Freshman year.

4. **Kindergarten Technics, Course 3.** During the first semester songs, games, rhythms, and dramatization are studied from the point of view of musical construction and suitability for children. The second semester is devoted to a comparative study of the educational methods and materials of Froebel, Dewey, and Montessori. One hour, throughout Sophomore year.

5. **Kindergarten Arts, Course 1.** This work includes the traditional Frobelian occupations: sewing, weaving, paper folding, and clay modeling; also a study of the significance of industrial arts in racial development. Two hours, throughout Freshman year.

6. **Kindergarten Arts, Course 2.** This course involves a consideration of all the Kindergarten arts and outside materials with practical applications. Prerequisite, Course 1. One hour, throughout Sophomore year.

7. **Frobelian Philosophy.** This course is based on a study of Froebel's Mother Play and is supplemented by such other educational philosophers as Dewey, Butler, and Horne. Two hours, throughout Sophomore year.

8. **Ethics 1.** Every-day Ethics by Cabot is used as a basis for the discussion of questions of ethics

as related to everyday living. One hour, throughout Freshman year.

9. **Children's Literature.** This work covers the essential aspects of children's literature such as Mother Goose, Folk and Fairy Tales, Myths, and Bible stories. It aims to acquaint the student with the fundamental principles of choice, preparation and classification of stories. Practice in story-telling is an important part of the class method. Two hours, throughout Sophomore year.

10. **Teaching.** The work in teaching consists of experience in the college Kindergarten supplemented by teachers' meetings and personal criticisms. Six hours, throughout Sophomore year.

In addition to the above courses the student must complete: Two semesters of Bible, two of Biology, one of Chemistry, two of English, two of Psychology, and two of History of Education in addition to the required work in gymnasium and one semester of Solfeggio. This work is generally covered in two years, at the end of which time the student is recommended to the state for the granting of a Life Certificate. The work in the Kindergarten Course is offered on the basis of the usual entrance requirements and may be entered upon in the freshman year. It is desirable that the groups be small and the faculty reserves the privilege of accepting or rejecting applicants on basis of health and demonstrated adaptability for the work.

LATIN

DR. EWING, ASSISTANT PROFESSOR COOK

1. **Elementary Course.** (a) Lessons; (b) Cæsar. Course 1 covers the work of the two units of foreign language required for entrance to college

or to the law or medical school. Five hours, throughout the year.

2. **Intermediate Course.** (a) Cicero; (b) Vergil. Course 2 is offered to those who have had two or three years of Latin and wish to prepare themselves to enter Course 3 in one year. Five hours, throughout the year.

3. **Cicero, De Senectute.** Inflections and word analysis; reading of selections from Ennius, Lucretius, Vergil, Sallust; Roman Literature of the Republic. Four hours, first semester.

4. **Livy, Book XXI.** Review of syntax; a play of Terence for reading at sight; topography of Rome. Four hours, second semester.

5. **Horace.** Odes and selections from the Epodes; study of the style and qualities of Horace; social and political conditions of the Augustan Age; Literature of the Augustan Age. Three hours, first semester.

6. **Pliny's Letters.** Selections from Martial, Tacitus, Suetonius; Silver Age Literature. Three hours, second semester.

Elective Courses

7. **Roman Drama.** Plautus, Terence, Seneca. Three hours, first semester.

8. **Roman Philosophy.** Lucretius, Cicero, Seneca. Three hours, second semester.

9. **Roman Satire.** Horace, Persius, Juvenal. Three hours, first semester.

10. **Roman Elegy.** Catullus, Tibullus, Propertius. Three hours, second semester.

11. **Roman Literature in English.** An outline course of readings in the best translations, offered pri-

marily to non-classical students. Three hours, first semester.

12. **Roman Life and Art.** Private life of the Romans; lectures and readings, illustrated by the lantern. This course does not require a knowledge of Latin. Three hours, first semester. Alternates with Course 11.

13. **Teacher's Course.** A careful study of portions of Cæsar; review of elementary Latin grammar, pronunciation, etc; methods of the work of the first and second years of Latin study. Two hours, second semester.

14. **Teacher's Course.** A careful review of one oration of Cicero and one book of the Æneid, with special attention to forms and syntax, and versification; methods of teaching third and fourth year Latin. This course alternates with Course 13. Two hours, second semester.

The major in Latin must include, in addition to Courses 3 to 6, nine hours to be selected from Courses 7 to 10, 13, and 14.

LIBRARY METHODS

Miss Cook

A course in classification, cataloging, reference work and bibliography. Elective for Juniors and Seniors. One hour, first semester.

MATHEMATICS

Dr. Notestein

1. **Algebra and Trigonometry.** Algebra: the theory of logarithms and other selected portions. Plane Trigonometry: a study of the functions of angles;

trigonometric formulae, their derivation and transformation, with their application to the solution of problems. Four hours, first semester.

2. **Analytical Geometry.** The bilinear and the polar systems of co-ordinates; properties of the straight line and conic sections; general equation of the second degree and higher curves. Four hours, second semester.

3. **College Algebra.** This course includes progressions, binomial theorem, undetermined co-efficients, series and higher equations. Two hours, throughout the year.

4. **Spherical Trigonometry and Solid Analytical Geometry.** Napier's rules of circular parts; the solution of problems and the application of spherical trigonometry to astronomy.

System of co-ordinates in solid analytical geometry; lines, planes and surfaces. Two hours, throughout the year. Prerequisites, 1 and 2.

5a. **Differential Calculus.** A study of the rules and formulae for differentiation, expansions of functions, indeterminate forms, application of calculus to curves, maxima and minima. Five hours, first semester.

5b. **Integral Calculus.** This course includes a study of the methods of integration, the application of integral calculus to curves, areas, volume, moment of inertia, pressure, etc. Five hours, second semester.

6. **Surveying.** A combined theoretical and practical course covering such topics as adjustments of instruments; land surveying, including running of lines, reestablishing of corners, determination of heights; simple triangulation; measurement of areas; leveling; topographic surveying; laying out curves and computation of earthwork. Prerequisite, Course 1. Two hours, throughout the year. 1917-1918.

7. **The Theory of Equations.** This course includes a study of the general properties of the equation; transformations; differentiation of algebraic functions; cubic and biquadratic equations; location of roots; the solution of numerical equations and the theory of determinants. Open to Juniors and Seniors. Three hours, throughout the year.

8. **Teacher's Training Course.** This is an elective course open to Juniors and Seniors who are planning to teach mathematics in secondary schools, and to all other students who may need such a course. The work of the first semester will include a review of the fundamental principles of high school mathematics supplemented by advanced work in these branches. The second semester will embrace a discussion of standard text-books; methods of teaching and selected topics from the History of Mathematics. Three hours, throughout the year. 1918-1919.

9. **Advanced Calculus.** A continuation of Courses 5a and 5b, with numerous practical applications of the differential and integral calculus. Open to Seniors. Three hours, throughout the year.

10a. **Analytical Mechanics.** This course treats of the fundamental principles of mechanics, the composition and resolution of forces, center of mass, friction, virtual velocity, machines, attraction, rectilinear and curvilinear motion. Three hours, first semester.

10b. This course deals with the laws of motion, forces, vis viva, impact, work and energy, moment of inertia, rotary motion, motion of a system of rigid bodies in space. Three hours, second semester.

The major in Mathematics must include, in addition to Course 5, six hours selected from Courses 7-10.

MUSIC

MR. VEATCH AND MISS ROBERTS

1. **Solfeggio.** Rudiments of music, intervals, major and minor scales, notation, sight singing and fundamental chord structure. Two hours, throughout the year.

2. **Musical Appreciation.** A practical study from the appreciative and æsthetic point of view of the best known works of the masters in the fields of oratorio, opera, art song and piano and orchestra literature. Two hours, throughout the year.

3. **Harmony.** Construction and combination of simple and discord harmonies. Harmonization of given melodies. Original composition of simple phrases and periods. Passing tones, suspensions and modulations. Hymn writing. Two hours, throughout the year. Prerequisite, Course 1.

4. **History of Music.** A study of the development of various forms and schools of composition, evolution of musical instruments and biographies of great performers and composers. Two hours, throughout the year.

5. **Analysis.** A careful study of a large variety of compositions from a harmonic and thematic point of view. Prerequisite, Courses 1 and 3. Two hours, throughout the year.

6. **Ear Training.** Exercises based on text by Heacox for the purpose of developing the power to hear music mentally. Prerequisite, Courses 1and 3. Two hours, throughout the year.

7. **Composition.** An application of the principles of Harmony to original work in various simple forms. Prerequisite, Courses 1 and 3. Two hours, throughout the year.

8. **Counterpoint.** A study of the art of combining melodies in polyphonic style. Prerequisite, Courses 1 and 3. Two hours, throughout the year.

9. **Practical Courses** in Piano, Pipe Organ and Voice. Private lessons. Special tuition.

The first eight courses above are open to regular college students as elective or major subjects without additional tuition. Candidates for an A. B. degree desiring to major in music must present twenty hours of theoretical musical work as a first major and twenty hours of practical musical work, including two practical subjects, as a second major.

Candidates for a certificate in music must present besides regular college entrance requirements the following prescribed courses: Theoretical music courses, 1 to 8 inclusive; major practical subjects, four years, two lessons per week; minor practical subject, two years, one lesson per week; German, eight hours; French, eight hours; English, six hours; Bible, four hours; choral and ensemble work, eight hours; Gymnasium, two hours.

Special students in music must pursue a prescribed course, including two theoretical subjects, a major practical subject, two lessons per week, and a minor practical subject, one lesson per week.

PHILOSOPHY AND EDUCATION

DR. RANDELS

Philosophy

1 and 2. **History of Philosophy.** The study of what the great thinkers of the world have thought and written about the problems of life. Open to Juniors. Three hours, throughout the year.

3. **Logic.** A study of principles of inductive and

deductive reasoning. Open to Juniors and Seniors. Three hours, first semester. 1917-1918.

4. **Aesthetics.** A consideration of the principles which underlie the aesthetic appreciation of architecture and painting. Open to Juniors and Seniors. Three hours, second semester. 1917-1918.

5. **Readings in Modern Philosophy.** This course will serve as an introduction to philosophy, since some of the fundamental problems of philosophy will be especially noted. There will be a firsthand study of the writings of Descartes, Locke, Berkeley, and Hume. Open to Juniors and Seniors. Three hours, first semester. 1918-1919.

6. **Readings in Philosophy.** A first-hand study of the writings of other philosophers than those studied in connection with Course 5. Open to Juniors and Seniors. Three hours, second semester. 1918-1919.

Psychology

1. **General Psychology.** The purpose of this course is to interest the student in the study of himself. The text-book work is supplemented by simple experiments designed to give the student first-hand information and to promote independent work. Open to Sophomores. Three hours, first semester.

2. **General and Educational Psychology.** Continuation of Course 1 with especial attention to those parts of psychology which have the widest application to education. Three hours, second semester.

Education

1 and 2. **History of Education.** An outline of the development of educational theory and practice in the light of economic, social, political, philosophical,

and religious conditions at different ages. Open to Juniors. Two hours, throughout the year.

3. **Principles of Education.** Principles contributed by biology, psychology, sociology, and philosophy which appear to be the foundations of modern education. Open to Seniors. Two hours, first semester.

4. **General Principles of Method.** Selection and arrangement of subject-matter, the doctrine of interest, the formal steps, and the preparation of lesson plans, classroom management. Open to Juniors. Two hours, second semester.

Graduates from any of the college groups of study who complete not less than eleven hours of the above courses in psychology and education in addition to Psychology 1 will be recommended by the faculty to the State Board of Education for a teacher's certificate which will enable them to teach in the public schools of Michigan without examination.

The required philosophy should consist of two courses selected from 1, 2, 5, and 7.

A major in philosophy should include courses 1 and 2, and fourteen hours' work selected from courses 3 to 7 and course 6 in the department of Religious Education. Courses 11 and 12 in the department of history are recommended to any majoring in philosophy.

PHYSICS

Professor Maney

1. **General Physics** Lectures and recitations. Year course, three hours per week. This and course 3 (a and b) constitute the pre-medical course in Physics. Those intending to take the advanced work

in the department or engineering courses in a technical school should register in courses 2 and 3 (a and b).

2a. **Mechanics, Sound, and Heat.** Lectures and recitations. A knowledge of plane trigonometry is a prerequisite. Four hours, first semester.

2b. **Light, Magnetism, and Electricity.** Lectures and recitations. Four hours, second semester.

3a and 3b. **Laboratory Physics.** Designed to accompany courses 1 and 2, but may be taken the following year. This course consists of quantitative measurements, the use of instruments of precision, the verification of the laws of Physics, the determination of constants and coefficients, and the manipulation of apparatus. Two laboratory periods each semester. 3c. One laboratory period, each semester.

4. **Electricity and Magnetism.** Advanced course. Open to those who have had courses 2 and 3, or the equivalent. Registration in Calculus is advised. Two recitations and one laboratory period.

5. **Light.** Advanced course. Two recitations and one laboratory period.

6. **Laboratory Physics.** Advanced course. Offers individual work in the laboratory on topics specially chosen to serve best the needs and capacity of each student; intended to introduce him to some of the more intricate physical measurements. Three laboratory periods.

7. **Measurement and Computation.** A practical course with applications of the principles of Least Squares and methods of computation. Open to those who are taking or have completed trigonometry and college algebra. Two hours.

8. **Theory of Measurement.** A mathematical study of the Method of Least Squares. Calculus is a prerequisite. Two hours.

9. **Elements of Modern Astrophysics.** The course comprises an introduction to the general principles of the subject and in particular is concerned with recent research. Prerequisites, course 8 and descriptive astronomy. Three hours.

PHYSICAL TRAINING FOR WOMEN

Miss Hodgson

The demand for physical education is rapidly growing. It has become a self-evident fact that properly directed exercise will bring us to a normal state, giving health, development, control, freedom, grace, and poise.

The graded course of regular class work, which is offered to and required of every woman student, covers two years of training, for which classes meet three times a week. The floor work consists of drills in Swedish gymnastics, dumb-bells, Indian clubs, wands, the Delsarte system of movements for grace and rythm, games, and aesthetic and national dances. A certain amount of outdoor work is included in the regular course. Long walks, skating, tennis, and other outdoor sports in season. The regular tournament deciding the college tennis championship is held in May. In connection with the floor and outdoor work, a study of hygiene and "first aid" is required of everyone.

The purpose of the course is to improve the organs of the circulatory, respiratory, and digestive systems; to give perfect control over voluntary motion by training the body to obey the commands of the will with the least waste of energy. Relaxing and breathing exercises bring rest to the over-tired nerves. In order to secure the proper position, to correct the bad posture, round shoulders, flat chest, etc., it is necessary to give special prescriptions of corrective exercises. An examination is made when the pupil arrives, and exercises are prescribed by the instructor to correct any irregularity or weakness in development noted at the time.

These co-ordinated exercises give a rare buoyancy and lightness of the figure, with bodily control which results in unity of action, in poise, freedom and grace, and at the same time furnishes exercise sufficiently vigorous to stimulate the vital organs to increased activity.

All students taking the work are expected to wear the uniform, which is black serge bloomers, white cotton blouse, and Swedish gymnasium shoes.

PHYSICAL TRAINING FOR MEN

Mr. Helmer

Special attention is given to the health and physical welfare of the men of the College. In order to help towards this end, physical training work has been put on a credit basis, two hours' work being required of each student before graduation.

During the spring and fall months, outdoor work is emphasized through competition for positions on the various teams; namely, football, track, tennis, and cross-country running. These teams are open to all, and every one is urged to enter one of them.

During the winter months, from November 1st to April 1st, regular gymnasium practice is required of all Freshmen and Sophomores.

This work consists of two hours of class work each week, regular class periods being scheduled for this purpose. The work is divided into two grades, that for Freshmen consisting of marching, calisthenics (free hand, dumb-bells, Indian club and wand drills) and also of the simpler apparatus work on the horse, the bars, and the ladders. The second year men, and those judged by the instructor to be more proficient in that line of work, are given more advanced training in calisthenics and heavy apparatus and are also given practice in leading the other classes.

In the fall, students who are not on the football squad must engage in cross-country runs at least three times a week. In the spring, they must take up either baseball, track, or tennis.

The work is planned so that every man in the Freshman or Sophomore class, not excused by the Faculty upon the recommendation of the athletic director, must be engaged during a part of his college year in some form of athletics.

The ultimate aim of athletic instruction in Alma is not the creation of a few stars, but the development of the individual to a greater physical proficiency.

An incidental fee is required of each student, which gives him use of a private locker and all the privileges of the field and gymnasium, and also admits him free to all athletic contests.

Students who are below grade in more than three hours' work cannot compete in any intercollegiate contest, and students who are below grade in more than two courses must drop out of all athletic teams until their work has been made up.

At the beginning of each semester the student will be subjected to careful physical examination and measurements. Exercises in the gymnasium will then be prescribed which are appropriate for his needs.

An elective for juniors and seniors covers the theory and practice of physical training and coaching. It prepares men for high school positions.

General Information

SUGGESTIONS TO APPLICANTS FOR ADMISSION

The requirements for admission to the College are presented on pages 13 and 14. For an understanding of the nature and scope of the courses of study of the College, the applicant should study the description of courses presented on pages 19 to 52. The index at the end of this Catalog will direct him to the page on which any given subject is treated.

New students should arrive the Monday before the opening of a semester, so as to conclude all necessary arrangements. Young women go directly to Wright Hall and consult the Dean of Women. Young men should go at once to the President's office in the main college building.

ADMISSION AND DISMISSION

Applicants for admission to any department of the institution will first report to the President for registration. They must present testimonials of good character, and those who are from other institutions of learning must furnish certificates of standing and of honorable dismissal.

All students admitted to the institution will be on probation for the first three months. If during this period a longer stay is deemed inadvisable by the Faculty in the case of any student, he may be so informed privately and permitted to withdraw. Any student may at any time be privately dismissed if the Faculty deem his further connection with the school undesirable. All students entering the College accept these conditions of matriculation.

Any student against whom there are no unpaid bills nor charges of misconduct is entitled to an honorable dismissal.

STUDIES AND EXAMINATIONS

No student may take up a study out of the order prescribed in this Catalog nor drop a study once entered upon, without the consent of the Faculty.

No student is allowed to take less than twelve hours of work, nor may he take more than sixteen hours of work without special permission. An applicant asking permission to take more than sixteen hours of work must have maintained an average of B in the work of the previous semester.

Students whose class work in the current semester averages below B-, or who have more than two conditions, are not allowed to represent the College as delegates to conventions or as members of debating, oratorical, or athletic teams.

Examinations are held at the close of each semester and at intervals during the semester at the discretion of the instructor. The results of examinations are reported to parents at the end of each semester, and recorded for future reference. In case of Freshmen, a report of class standing is sent also at Thanksgiving recess.

If at any examination the standing of a student is unsatisfactory, he shall be duly informed and notice shall be sent to his parents or guardian. If there is no improvement, the student may be dismissed from college.

Conditions must be removed within one year from the time of the examination.

CREDITS AND HONORS

By the College marking plan, excellence in scholarship is recognized through a system of honor-points corresponding to the class standings received.

Class standings are indicated by letters. A, B, B-, C, C-, D are passing grades. But honor-points are earned by the first three letters only. For a grade of A in any subject, three times as many honor points will be given as there are hours in the course; for a grade of B, twice as many honor-points; and for a grade of B-, the same number of honor points. One hundred honor-points are required for graduation. For graduation cum laude, 200 points are required; for graduation magna cum laude, 250 points are required; and for graduation summa cum laude, 300 points are required.

DEGREES AND CERTIFICATES

The degree of Bachelor of Arts (A. B.) is conferred upon all graduates of the College, except that the degree of Bachelor of Science (S. B.) may be conferred upon graduates who have had at least one-half of their college work in science, if they prefer this degree.

The Bachelor's degree will not be conferred upon a student unless he has been in residence for at least one year. As a rule, a student must be in residence during the year immediately preceding his graduation.

Students who complete the prescribed courses in Kindergarten Training or in Music, will receive certificates.

RULES FOR CLASSIFYING COLLEGE STUDENTS IN THE CATALOG

1. For Sophomore standing a minimum credit of 40 hours is required; for Junior standing, 70 hours; for Senior standing, 100 hours.

2. No student shall be classified as a Sophomore who has any entrance conditions; nor as a Junior, who has any Freshman conditions; nor as a Senior, who has any Sophomore conditions.

DIVISIONS OF THE COLLEGE YEAR

For purposes of administration and instruction, the year is divided into semesters of eighteen weeks each, the first opening about the middle of September, the second about the 1st of February. The usual holiday and spring vacations divide the year into three terms of about twelve weeks each.

Students absent from recitations immediately preceding or following a vacation are assessed one dollar for each absence. However, not over three dollars is so assessed for such absences before, or three dollars after a vacation.

For the dates of the opening and the closing of terms and semesters, see Calendar at the beginning of this Catalog.

BUILDINGS AND EQUIPMENT

There are at present six academic buildings on the College campus: the Recitation Building, Wright Hall, the Library, Hood Museum, the Gymnasium, and Pioneer Hall. There is also the central heating plant.

Recitation Building

The Recitation Building contains the College offices, the chapel, twenty-two recitation rooms, laboratories, and department offices, and halls for the Zeta Sigma and Phi Phi Alpha literary societies.

Wright Hall

Wright Hall, the home provided for the young women through the munificence of the late Ammi W. Wright, in architectural appearance and in adaptation to its purposes is not excelled by any building of its kind in the country. It is built of paving brick, trimmed with stone, and is four stories in height above the basement, which is constructed of field stone. The interior finish is very pleasing and the arrangements for the comfort of the occupants are complete. Great care is being taken to surround this noble edifice with a fit setting of greensward, shrubbery and trees, that it may typify to successive generations of college students the ideal college home.

Unless excused by the Faculty, all young women are expected to live in Wright Hall, which is under the immediate supervision of the Dean of Women. She is directly responsible for the government of the young women and will assign them their rooms and have the general supervision of their personal habits and activities.

Parents should not make arrangements for a daughter to live outside Wright Hall without first consulting the Dean of Women or the President.

Parents and guardians are invited to communicate freely with the Dean touching the interests of their daughters and wards, thus enabling her to understand and meet the peculiar needs of each student.

Girls under sixteen years of age will not be received, except by special arrangement.

At the time of application for admission, a deposit of $5 must be made by each student in order to reserve a room. This deposit will be retained in the Secretary's office until the close of the College year as a contingent fee to pay for possible breakage or injury to furniture or equipment of Wright Hall. This sum will be refunded if the student decides to withdraw, provided notice is sent a month before the beginning of the college year. Make checks payable to Alma College. A deposit of 50 cents is required of each one for room key.

Wright Hall is open to receive young women on Monday, September 17, the noon meal being the first served. Students are requested not to arrive earlier unless by special arrangement with the dean.

The rooms are single or arranged in suites and are furnished with single enameled couch bed and springs, felt mattress and pad, pillow, oak dresser, study table, bookcase, chairs, and window shades. Each student must furnish her own towels, two pairs of sheets and pillow-slips, blankets or comforts, floor coverings, and such conveniences and adornments as may be desired. Lavatories in bath rooms.

Because of the danger of fire, the trustees of the College prohibit the use of chafing dishes, electric cooking appliances, electric irons, etc., except in rooms especially provided in the basement. Parents are asked to co-operate in enforcing this regulation.

Pioneer Hall

Pioneer Hall, one of the two original college buildings, is the dormitory for young men. The building is heated by steam and lighted by electricity. Baths, together with ample toilet conveniences, are provided in the basement. The building has been entirely remodeled at a cost of nearly $9,000. It is as good a dormitory for men as is found in the state.

Students living in the building are loosely organized for government. They make their own regulations and enforce them, being advised by the president and a faculty committee. This form of government has been satisfactory.

This building accommodates between fifty and sixty young men. Those unable to secure rooms in it, will be directed by the College to satisfactory rooms in private homes.

Rooms in Pioneer Hall are provided with bed, springs, mattress, table, chairs, bookrack and wardrobe. Students must furnish for themselves towels, sheets, pillow slips, and blankets. They also pay for laundering these articles. Rooms are $1.25 a week for each occupant. Upon engaging a room each student deposits $5.00, which is returned if for any reason the room should not be desired and due notice is given before September 1. This deposit is made to meet any damages that may be assessed against the student, either such as may be traced to him or such as may be assessed pro rata upon the occupants of the Hall for damage done therein. Any unexpended balance of this deposit will be returned to the student within one week after the close of the year. For his room key each student deposits fifty cents, which is refunded when the key is returned. Young men desiring to engage rooms should address the College. Checks should be made payable to Alma College.

The Library

The library building contains the stack room, the large and well-lighted reading room, and a separate history room. It is built of red brick trimmed with stone, is handsomely finished in hardwood, and is in all respects well adapted to its particular use.

In the Library building, besides the General Library, are the following special collections:

1. The Pollasky Law Library.
2. The Lucy Plum Mitchell Library of History and Political Economy.
3. The Sarah H. Lancashire Library of Fiction.
4. The Arthur Hill Library of Lincolniana.

5. The Joseph W. Ewing Memorial Library of Pedagogy and Education.

6. The Mary C. Gelston Library of Latin Language and Literature.

7. The David M. Cooper Memorial Library of Ethics and Theology.

These collections contain 26,709 volumes and a valuable collection of pamphlets. There has been an increase of 481 volumes during the past year.

The collection embraces a great variety of works in classical, English, and foreign literature, in biography and history, in the various sciences and arts, and is exceptionally well furnished with encyclopedias and complete sets of American and European reviews. The books are classified and arranged according to the Dewey system, and an index of authors, titles, and subjects places the contents of the Library at the command of all who are in search of information upon any subject.

Immediately adjoining the library stacks is the reading room, supplied with cases of reference books and the leading journals and periodicals of this country and England.

The law library, the gift of Marcus Pollasky, of Detroit, consists of nearly eight hundred volumes. During library hours it is accessible to members of the bar, who are cordially invited to avail themselves of its privileges.

The Library of Lincolniana, the gift of the late Hon. Arthur Hill, of Saginaw, occupies a special case in the history room.

The Library is open daily from eight to twelve and from one to six except that on Saturday mornings it is closed until nine o'clock. The evening hours are from seven to nine o'clock on Tuesday and Thursday evenings.

Students may examine and use the books and periodicals during the library hours, and may draw them from the library and retain them for a period of one week at the end of which they should either be returned or renewed. Other persons are allowed to use the library and reading room freely and are permitted to draw books on an equal footing with the students. Transient visitors in town are charged twenty-five cents a month for the use of the library books.

As a part of its work the library offers assistance with out charge to high school instructors and students in the preparation of debates and orations. The library will lend books to ministers who are reading along special lines, the only charge being the payment of postage. Suggestions relative to helpful books will be made to those who apply. For this service address Librarian, Alma College, Alma, Mich.

During the year the librarian gave lectures to the four divisions of the freshman class on the "History of Libraries" and the "Use of the Library." A class in Library Methods was held during the fall and winter term, open to upper classmen. It is of particular advantage to the students who expect to become teachers.

During the past year the library has received gifts of books and magazines from the following: U. S. Government, the State, Library of Congress, Harvard University, Dr. H. M. Crooks, T. Iyenaga, Prudential Ass'n. of America, Chas. Moore, Prof. A. P. Cook, Commission of Christian Education, Hudson Maxim, L. A. Sharp, Geo. Kennan, General Education Board, John S. Nollen, L. F. Loree, H. Anasagasti, Carnegie Endowment, U. S. Brewer's Ass'n, American Ass'n. for International Conciliation. Other friends have also contributed about seventy-five dollars for the binding of the magazines.

Francis A. Hood Museum

The Hood Museum of Natural History, the gift of Mrs. Francis A. Hood, of Saginaw, and of Mr. Frank Hood, of Marinette, Wis., was finished and dedicated in June, 1900. It is two stories and a basement in height, with slate roof, and is one of the finest structures on the campus. It has two large exhibition halls lighted to give the largest possible space for the display of the collections. In the basement are storerooms and laboratories for the preparation of specimens, making the building one of the most complete and convenient museum buildings in the state.

The cases in use in the museum are built of oak, constructed on plans furnished by the U. S. National Museum and are provided with adjustable shelves, dust and insect proof doors, etc. At present the geological and mineral collections are the only ones systematically installed. Additional cases for the Winchell collections of fossils and for the Albino deer, have been provided through the generosity of Mrs. Francis A. Hood, of Saginaw, and Mr. Frank Hood, of Marinette, Wis.

The collections in the Museum are:

1. The Stillwell collection of Michigan birds and animals.
2. The W. S. Crawford collection of birds.
3. The Shroyer-Wilcox collection of palaeozoic fossils.
4. The Alexander Winchell collection of rocks, minerals, and fossils.
5. The general geological and mineral collection.
6. The William S. Cooper collection of shells, minerals, and butterflies.

The Stillwell collection was made by a former resident of Alma, most of the specimens being collected in the vicinity of the College and representing some species now extinct or very rare for this locality. It numbers nearly 300 specimens, and was obtained by purchase.

The W. S. Crawford collection was made by the donor in various parts of the United States, and has a variety of rare specimens of birds from Florida, Arizona, and Michigan.

The Shroyer-Wilcox collection is a systematic collection of palaeozoic fossils, those of the Cincinnati group of rocks being especially well represented. It is valuable as a supplement to the other collections of fossils in the museum. It was acquired by purchase.

The Alexander Winchell collection is the largest and most valuable acquisition of the museum. The collection is that gathered by Professor Winchell during his long and active life as a geologist and teacher, and contains over 6,000 specimens, many of which were collected in Michigan by Dr. Winchell and described by him. These type specimens have an especial value. The collection was presented by friends.

The general biological collection contains representative vertebrate and invertebrate animal material, most of it yet to be arranged for exhibition, which has been collected during the history of the College. It will occupy the upper hall of the museum. It is estimated to contain 2,000 specimens.

The general geological and mineral collection is installed in the east end of the lower hall of the museum and numbers 2,500 specimens. It has been obtained largely by small gifts from numerous friends.

The Gymnasium

The gymnasium building contains the studio of the instructor in vocal music, the kindergarten rooms, the gymnasium, and an office. The rooms occupied by the kindergarten department are large and well-lighted, and in every respect are well arranged for both school and recitation purposes. The gymnasium occupies the entire upper floor of the edifice, and with its equipment of apparatus, the gift of Mr. John W. S. Pierson, of Stanton, Mich., and Mr. Charles H. Davis, of Saginaw, Mich., furnishes adequate facilities for athletic training. Here during the winter months, daily classes in physical culture offer the opportunity for that systematic training of the body which is so necessary to the health of the student. This work is required of freshmen and sophomores, and is open to all other students.

The Laboratories

The equipment of the physics laboratory is ample for experimentation in mechanics, hydrostatics, light, heat, sound, and electricity. The laboratory is supplied with gas, water, tables, and other appliances which add materially to its facilities for scientific work.

The biological laboratory is furnished with all necessary apparatus for thorough and practical work. The equipment consists of a sufficient number of compound and simple microscopes, microtomes, paraffin baths, air and water nets, collecting boxes, etc., for individual field and laboratory work.

The chemical laboratories occupy the entire basement of the east wing of the recitation hall.

The general laboratory is filled up with tables, apparatus and chemicals, and will accommodate twenty-four students. Each desk is supplied with gas and water, re-agents, and necessary apparatus for hastening tedious processes as much as possible.

The quantitative laboratory is equipped with three fine weighing balances, blast lamps, and combustion and crucible furnaces, and is provided with a large ventilating hood.

The organic laboratory has a good ventilating hood, balance, hot air and water ovens, Kieldahl's apparatus for the determination of nitrogen, fat extractors, a polariscope, and such other apparatus as is required for its work.

The chemical department also possesses a fine spectroscope and a sufficient amount of miscellaneous apparatus for thorough, practical work.

A reference library consisting of some of the latest chemical books is kept in the laboratory for the use of students.

A fine projecting and reflecting lantern is included in the equipment of the laboratories.

Davis Athletic Field

The generosity of Mr. Charles H. Davis, of Saginaw, provided the College in 1902 with a modern athletic field. About five acres of the campus not far from the gymnasium was perfectly graded, drained, surrounded with a high board fence, and equipped with football field, baseball diamond, quarter-mile cinder track, bleachers, and a grandstand. Water mains bring running water to the field. Outside the field are several tennis courts. In 1912 Mr. Davis added an imposing entrance gate, which renders the field one of the most attractive as well as one of the most adequate among the college fields of the Middle West.

Expenses

MATRICULATION FEE

Every student entering the College pays a matriculation fee of $5.00 at entrance.

TUITION IN COLLEGE

Students carrying eight to sixteen hours of College work will be charged $20.00 per semester for tuition, or $40.00 for the year. Above sixteen hours the charge will be $2.50 for each additional hour.

If at graduation the student has paid for more than 120 hours work he shall be given a rebate so that the total amount paid by him for academic tuition shall not exceed $160.00.

For less than eight hours the charge will be $2.50 per hour.

LABORATORY FEES

For the use of laboratory apparatus and equipment, each student taking work in chemistry or physics pays a special laboratory fee of $5.00 each semester, and each student taking biology, a fee of $3.00 each semester.

INCIDENTAL FEE

All regular students pay an incidental fee of $5.00 each semester, or $10 for the year. This admits to all athletic games, all public speaking and debating contests, and includes library, gymnasium, tennis court, and museum fees.

Special students taking one to five hours per week, pay no incidental fee; those who take from six to nine hours per week, pay $2.50 per semester; those who take ten or more hours per week, pay $5 per semester.

TUITION IN MUSIC

Voice:

One thirty-minute lesson a week, per semester	$25.00
Two thirty-minute lessons a week, per semester	45.00
Three thirty-minute lessons a week, per semester	60.00

Pianoforte and Pipe Organ:

One thirty-minute lesson a week, per semester	$18.00
Two thirty-minute lessons a week, per semester	30.00
Three thirty-minute lessons a week, per semester	40.00
All theoretical subjects, per semester	8.00

(Due from regular and special music students only)

Use of Piano:

One hour per day, per semester	$4.00
Two hours per day, per semester	6.00
Three hours per day, per semester	8.00

MUSIC TUITION REGULATIONS

All tuition must be paid in advance.

Lessons missed by students will not be made up except in cases of illness or unavoidable absence from school. In such case notice should be given in advance.

Music students taking at least two lessons a week, are allowed to take work in College classes to the extent of five hours a week without extra charge.

If a student leaves school during a semester, or discontinues a music course without permission from the Dean, no refund of tuition is allowed. In case of protracted illness, one-half of the tuition for the unexpired portion of the semester will be refunded. The request for this refund must be accompanied by a physician's certificate stating the inability of the student to continue his work.

BOARD

Young women living in Wright Hall are required to board in the building. Young men desiring to get their meals there are permitted to do so. In the dining room at least half a dozen members of the faculty take their meals.

Board is furnished in Wright Hall at cost. Prior to 1916-1917 the weekly cost was from $3.25 to $3.50. During 1916 and 1917 the cost has been about $3.80. Every effort will be made to keep the price as low as is compatible with wholesome diet. The College does not, however, make any assurance as to a definite price. It is hoped that during 1917 and 1918 the price may be lowered rather than increased.

Some young men board in private homes or restaurants. Parents are urged, however, to have their sons board in the College dining-room.

PAYMENTS

Parents are urged to pay room rent, board and tuition by the semester (eighteen weeks) in advance, sending checks directly to the College, made payable to Alma College. Bills for all unpaid accounts will be sent monthly to parents.

REBATES

The matriculation fee is never refunded in case of a student's withdrawal. Tuition fees are returned in amounts varying with the weeks of attendance in college. In case a student withdraws without the express permission of the Dean or the President, or in case of a student's dishonorable dismissal, the faculty cannot assure the return of any part of the fees paid.

SUMMARY OF EXPENSES

The following table exhibits three scales of expenditure for the college year, exclusive of furniture, clothing, travelling expenses, personal items and fees for laboratory science work.

	Low	Moderate	Liberal
Tuition	$40.00	$40.00	$40.00
Incidental fee	10.00	10.00	10.00
Room rent (Wright Hall)	36.00	54.00	63.00
Room rent (Pioneer Hall)	36.00	45.00	45.00
Board	108.00	126.00	144.00
Books and stationery	10.00	15.00	25.00
Laundry	10.00	20.00	30.00

RELIGIOUS ORGANIZATIONS

Throughout the College history, Alma students have maintained a Young Men's and a Young Women's Christian Association. The members of these organizations strive to meet new students upon their arrival at Alma and assist them in registering, in finding rooms and in becoming comfortably located. At the opening of each semester they hold social affairs for the purpose of promoting acquaintance. A union religious meeting is held on Wednesday evenings and separate meetings on Sundays. These meetings aim to develop true manliness and womanliness and to make clear that real religion is a thing of works as well as of faith. The organizations maintain voluntary Bible classes and send out leaders to organize and conduct mission Sunday schools. A band of student volunteers for mission work is regularly maintained. The associations unite with the faculty in conducting special meetings during the college Week of Prayer. In February, 1917 the special speaker was the Rev. James M. Barkley, D. D., Chairman of the Board of Trustees. Christian manhood and womanhood is the aim of these associations. Consequently, they appeal to practically every student that comes to Alma.

ORATORY AND DEBATES

Alma College is a member of the Michigan Inter-Collegiate Oratorical Association, which conducts two contests, one for men and one for women, on the first Friday in March of each year. The College is also a member of the Alma-Hope-Olivet League and meets each of these colleges in debate annually. Preliminary trials to decide upon the contestants in the different competitions are scheduled during the year as follows:

Freshmen Oratorical Contest (men)	First Friday in November
Freshmen Oratorical Contest (women)	Second Friday in November
Men's Oratorical Contest	First Friday in December
Women's Oratorical Contest	Second Friday in December
Prohibition Contest	Third Friday in February

The management of these local contests is under the charge of the local Oratorical Association and Debating League.

LITERARY SOCIETIES

Two literary societies, Zeta Sigma and Phi Phi Alpha, are conducted by the young men of the College, and three, Alpha Theta, Philomathean and Froebel Club, by the young women. The aim of these societies is the development of a correct literary taste and of the power of precise and ready expression.

COLLEGE PUBLICATIONS

The *Alma College Bulletin* is published monthly by the College. This publication aims to keep the alumni, schoolmen, high school students, and friends in touch with the work, the progress, the needs, and the prospects of the College. It is sent without charge to all who may apply, either for single issues or for a place on the permanent mailing list. The College Catalog makes one of the issues.

The *Almanian* is a student publication and is issued weekly during the college year. It is conducted by a board of editors who aim to make it a faithful reflector of college life in all its phases, as well as a consistent supporter of the interests of the institution from the standpoint of the student body.

The *Maroon and Cream* is the College annual published in May by the Junior class. It epitomizes the student activities of the year.

THE CLASSICAL CLUB

The Classical Club is conducted by the students of the ancient languages under the supervision of the instructors in Greek and Latin. The aim of the Club is the promotion of an interest in classical literature and archaeology. Meetings are usually held once a month during the college year.

THE SCIENCE CLUB

The Science Club was organized for general scientific research and for study in particular of the plants, animals, and geology of the region in which the College is located. Meetings are held once a month during the college year.

LECTURES AND CONCERTS

The citizens of Alma maintain a course of lectures and entertainments called the Lyceum Course. Prominent speakers and notable musicians visit Alma from time to time under the auspices of this association, students being able to avail themselves of these advantages at small expenditure.

The Alma Music Club is an association of College folk and town's people for the development of musical taste. A number of excellent concerts are provided at nominal cost.

The College entertains guests and speakers from time to time. Some of the addresses delivered by these guests are delivered in the chapel and some gatherings are held in Wright Hall, the commodious dormitory for women. Since the date of the last catalog of Alma College the following have been heard by the students of the College:

Mr. L. A. Sharp, C. E., Alma; Pres. J. Ross Stevenson, D. D., LL. D., Princeton Theological Seminary; Pres. H. B. Hutchins, Ph. B., LL. D., University of Michigan; Pres. James G. K. McClure, D. D., LL. D., McCormick Theological Seminary; Pres. Harry M. Gage, LL. D., Huron College; Pres. W. O. Carrier, D. D., Carroll College; Pres. John H. McCracken, Ph. D., LL. D., Lafayette College; Rev. William H. Mason, D. D., Alma; Dean Thomas C. Blaisdell, Ph. D., Pennsylvania State College; Pres. W. W. Boyd, M. A., Ped. D., Western College for Women; Pres. John S. Nollen, Ph. D., LL. D., Lake Forest; Pres. Thomas F. Kane, LL. D., Ph. D., Olivet College; Pres. Samuel Dickie, LL. D., Albion College; Pres. J. Campbell White, M. A., College of Wooster; Rev. Joseph W. Cochran, D. D., LL. D., Secretary Board of Education of the Presbyterian Church of the U. S. A.; Rev. E. A. McAlpin, D. D., President The College Board of the

Presbyterian Church of the U. S. A.; Rev. William Hiram Foulkes, D. D., LL. D., Secretary The Board of Ministerial Relief and Sustentation of the Presbyterian Church of the U. S. A.; Rev. Edward H. Pence, D. D., Moderator of the Synod of Michigan; Robert E. Speer, D. D.. LL. D., Secretary, Presbyterian Board of Foreign Missions; Sara Snell, Secretary, Student Volunteer Movement; Mary J. Corbett, Secretary, Young Women's Christian Association; Supt. E. E. Fell, Holland, Michigan; Charles F. Angell, Ionia, Michigan; Hon. Henry R. Pattengill, Editor, *Moderator Topics,* Lansing, Michigan; Dr. James M. Barkley, D. D., LL. D., Detroit, Michigan; Mr. Lee N. Hutchins, Grand Rapids, Michigan; Rev. George W. Benn, D. D., State Superintendent Home Missions Presbyterian Church; Mr. Thadius P. Preston, Ionia, Michigan; Dr. Joseph A. Vance, First Presbyterian Church, Detroit, Michigan; Rev. Joseph H. Green, First Presbyterian Church, Mt. Pleasant, Michigan; Rev. J. C. Elliott, Silver Springs, Maryland; Secretary Poteat, Student Volunteer Movement; Dr. A. S. Warthin, University of Michigan, Ann Arbor, Michigan; Dean Albert A. Stanley, Professor of Music, University of Michigan, Ann Arbor, Michigan; Rev. Wm. Bryant, D. D., South Lyon, Michigan; Rev. Harry R. Stark, D. D., Saginaw, Michigan; Rev. George E. Barnes, D. D., Battle Creek, Michigan; Mr. Edward A. Guest, Detroit *Free Press;* Rev. Wm. Crothers, Associate Secretary, Presbyterian Board of Education, Philadelphia.

AID FOR STUDENTS

Students of limited means expecting to complete a regular course at Alma, can usually obtain reasonable aid upon application to the President, who will bring their cases to the consideration of the Committee on Aid to Students. This committee administers an all too small Loan Fund. Students aided by this fund are expected ultimately to return the amount which they have received unless they enter into a life which is so purely missionary as to render such return a burden. No interest is asked, although often beneficiaries prefer to pay interest.

Generous-minded friends, even though they can give but little, can scarcely do better with their gifts than to add them to this Student Loan Fund.

Students preparing for the ministry of the Presbyterian church can secure as much as $100 a year from the Board of Education, if they need help, and if they are recommended by their home presbytery.

The children of home and foreign missionaries are granted scholarships yielding $30 per year when they are regular students of the College.

The College has forty-eight permanent scholarships, most of which yield $30 a year, besides a varying number of annual scholarships supported by Alma alumni organizations, by individuals, and by churches. These scholarships are administered in varying ways by the faculty committee. A few go to persons designated by the donors. A few are granted on a basis of excellent class work. Most, however, are awarded to students of promise who have real need of help. Scholarships are usually granted for a year. They may be withdrawn, however, at the end of the first semester if recipients fail to do satisfactory work. Holders of scholarships may be asked to render some form of service to the College.

Scholarships thus administered become a help to the College as well as to the student. The demand for scholarships is regularly greater than the supply. Friends, Sunday schools, churches, woman's clubs, or other organizations interested in helping young people, are invited to correspond with the President with reference to assuming a scholarship or part of a scholarship.

A number of students can usually find employment in the homes, stores, hotels, or boarding houses of Alma. The College, too, is at times able to give work to some young men and young women. Young men having a hundred dollars with which to begin a freshman year can usually complete a College course without interruption, provided they have health, energy, and a willingness to do faithful work. Young women should have at least fifty dollars more.

PERMANENT SCHOLARSHIPS

Permanent scholarships, most of them representing an endowment of $500 and yielding $30 per year in tuition, have been made available by generous friends of youth and of the College. The scholarships thus held are as follows:

NAME	DONOR
Mrs. C. P. Colvin	Mr. C. P. Colvin, Saginaw
Thomas Merrill	Mr. Thomas Merrill, Saginaw
Memorial Presbyterian Church	Rev. D. M. Cooper, Detroit
Laurense	Mr. Leonard Laurense, Detroit
Martha P. Seeley	Mr. John F. Seeley, Caro
Harry G. Kelton	Mr. and Mrs. J. M. Kelton, Bay City
Lucy Plum Mitchell	Prof. Jas. E. Mitchell, Alma
Louis Penoyer Memorial	Mrs. Emeline Penoyer, Saginaw
Edith M. Davis	Mrs. Edith M. Davis, Saginaw
Alba A. Lull	Mr. Alba A. Lull, Pontiac
Martha B. Heartt	Mr. William A. Heartt, Caro
William A. Heartt (four)	Mr. William A. Heartt, Caro
First Presbyterian Church	First Presby. Church, Saginaw
David M. Ladd, Memorial	U. P. and C. Church, Milford
Rachael W. Pierson	Mr. John W. S. Pierson, Stanton
Marion H. Plum	Mr. J. H. Plum, Indianapolis, Ind.
Helen Anderson Tanner	Mr. M. W. Tanner, Saginaw
Watson B. Robinson	Mr. James W. Robinson, Alma
Theodore D. Marsh	T. D. Marsh, D. D., Grand Rapids
Harriet Barton Wright, Memorial,	Mrs. J. H. Lancashire, New York
Margaret N. Thorburn	Mr. Jas. T. Thorburn, Detroit

John Cameron	Trumbull Ave. Presby. Church, Detroit
J. Ambrose Wight	First Presbyterian Church, Bay City
Katherine M. Inglis	Mr. Thomas Merrill, Saginaw
Brownell (eight)	Mrs. Mary E. D. Brownell Estate, Detroit
William E. Rohlfs	Many friends
Grace Church, Saginaw	Mr. Thomas Merrill, Saginaw
Francis King	Mr. Francis King, Alma
M. S. Smith	Mrs. Helen Smith Deming, Detroit
Hazel B. Garland	Mr. Arthur Garland, Howell
Nathan B. Bradley	E. E. and F. W. Bradley, Bay City
Horace B. Silliman	Dr. Horace B. Silliman, Cohoes, N. Y.
John J. Cleaveland	First Presbyterian Church, Detroit
Westminster	Westminster Presbyterian Church, Bay City
Gould (two)	Mrs. Helen Gould, Saginaw

UNIVERSITY FELLOWSHIP

The University of Michigan presents annually to a graduate of Alma a fellowship carrying an honorarium of $300. The recipient gives to the University some return in service, but has most of his time free to pursue advanced studies. The fellow is chosen by the Alma faculty. A member of the senior class or a graduate of not over four years' standing is eligible. Mr. H. O. Whittemore represented Alma in 1912-1913, studying landscape designing; Mr. Claude W. Satterlee in 1913-1914, studying mathematics; Miss Faith M. Welton in 1914-1915, studying Latin; Miss Bessie Seaver in 1915-1916, studying Latin; Mrs. Anna L. Sebring in 1916-1917. Mr. Alfred Papworth, of the class of 1916, was granted a special fellowship at the University of Michigan for the year 1916-1917.

HONOR SCHOLARSHIPS

The Silliman and Brownell Scholarships, each amounting to $50 in tuition and fees, are to be awarded annually at the close of the first semester to a young man and a young woman in the Junior class of evangelical belief and exemplary conduct who have the highest scholarship records as determined by honor points in the studies of the Freshman and Sophomore years. These scholarships during 1916-1917 were awarded to Edith E. Layer and Edward F. Bittner.

PRIZES

Greek Prize. The income of the Justin Marsh fund is awarded every second year to the student receiving the highest grade in New Testament Greek. This was last awarded to Miss Rose Carol Gray, '14.

Oratorical Prizes. Rev. W. H. Mason, pastor of the Presbyterian Church, Alma, offers a gold medal annually to the young man winning first place in an oratorical contest conducted under these conditions:

1. There must be at least six contestants.
2. The contest must take place before Christmas.
3. The winner may not contest a second time. He may, however, challenge another winner to determine which of them shall represent the College at the state contest.

The donor offers a gold medal under similar conditions for a women's contest. In 1915-1916 it was awarded to Bernice M. Ireland.

ALUMNI ASSOCIATION

Officers and Directors

President......................James E. Mitchell, '93
Secretary-Treasurer..........Stanley A. Graves, '10
Vice-President..................Sadie Messinger, '03
Ella Bittner, '12 Rev. J. Earl Webber, '05
Kendall P. Brooks, '97 Henry H. Soule, '03

The Association was formed by the class of '91. It has had a vigorous growth and has come to be regarded as an important and influential college organization. All graduates of the college are members of the Association.

In June, 1914, the constitution of the Association was changed by making the governing body consist of a board of seven directors, and by substituting annual gifts for the former dues.

The annual meeting of the Association is held on Tuesday of Commencement week, which has been designated as Alumni Day.

Alumni Club of Chicago

President	Rev. George A. Hill, '00
Vice-President	Rev. David Martin
Secretary-Treasurer	C. A. Monteith, '13

The next annual meeting, February, 1918.

Alumni Club of Detroit

President	Stanley A. Graves, '10
Vice-President	Adelbert H. Lindley, '11
Secretary-Treasurer	Anna L. Sebring, '12

The annual meeting, March, 1918.
Secretary's address, Ann Arbor.

Alumni Club of New York

President	Watson B. Robinson, '01
Vice-President	
Secretary-Treasurer	E. Blake McDonald

The annual meeting, the first Friday in May.

Secretary's address, 420 W. 57th St., New York.

Alumnae Association of the Kindergarten Training Department

President	Mrs. Kate Coddington, '03, Alma
Secretary-Treasurer	Miss Edna Swigart, '01, Alma

DEGREES CONFERRED

At the Commencement of the College held June 14, 1916, the following degrees were conferred:

Honorary Degree

The Degree of Doctor of Divinity Upon

Rev. George E. Barnes..........Battle Creek, Mich.

At the inauguration of Harry Means Crooks, the degree of Doctor of Divinity was conferred upon
Rev. Lewis S. Brooke, Howell, Mich., and
Rev. Edwin A. McAlpin, Madison, N. J.

The Degree of Doctor of Laws Upon

Dean Thomas C. Blaisdell, Ph. D., Penn. State College.
President Wilbur O. Carrier, D. D., Waukesha, Wis.

Degrees Upon Examination, June 14, 1916

The Degree of Bachelor of Arts Upon

Oscar M. Anderson	Omena
Edward Bahlke	Alma
Marcia Ann Carl	Howell
Ralph Chisholm	Breckenridge
Auda Cleo Gill	Pellston
Bernice Ireland	Grand Ledge
T. F. Johnson	Coldwater
Otha McCracken	Alden
Montie McFarlane	Linwood
Arthur John McIntyre	Alma
T. Lucille McQuade	Detroit
Alfred Garlock Papworth	Howell
Marion Louise Parsons	Charlevoix
Thomas Arnold Robinson	Alma
Ruth Stacy	Coshocton, O.
Harry Staver	Saginaw

The Degree of Bachelor of Science Upon

Alonzo Wallace Beshgetoor	Alma
Vern Levi Van Duzen	Breckenridge

CERTIFICATES GRANTED

At the Commencement of the College held June 14, 1916, certificates were granted as follows:

A State Teacher's Certificate to

Oscar M. Anderson
Edward Bahlke
Alonzo Beshgetoor
Marcia A. Carl
Auda C. Gill
Bernice M. Ireland
Otha McCracken
Montie McFarlane
Arthur McIntyre
T. Lucille McQuade
Alfred G. Papworth
Marion L. Parsons
Ruth Stacy
T. E. Johnson

A State Kindergarten Certificate to

Eva L. Ackley
Helen Bradfield
Christina E. Bromley
Edna Campbell
Ermah A. Colling
Zella M. Comer
Beryl Hazelton
Eva M. Merrill
Helen K. Mitchell
Gladys Myers
Vera G. Reid
Irene R. Remington
Lydia Resseguie
Esther B. Ricketts
Emily Slocum
Bernice Sweet
Martha D. Voltz
Gladys C. Watkins
Ruth Weston
Ethel G. Zipp

A Certificate in Music to

Eva Barnes (piano), Lena Beverly (music and drawing), Merle McKay (music and drawing).

CLASS HONORS

Salutatory	Montie McFarlane
English-German	Otha McCracken
English-Latin	Bernice Ireland
Mathematics-Chemistry	Montie McFarlane
Silliman Scholar	Harry Staver
Brownell Scholar	Bernice Ireland
Valedictory	Bernice Ireland

The Register of Students

SENIORS

Ault, Morton..........Petersburg
Biology and English
Bacon, Ernest..........Midland
English and Philosophy
Ballou, Adelaide..........Stanton
Mathematics and History
Beshgetoor, Ray V..........Alma
Mathematics and Physics
Beverly, Efford..........Alma
Chemistry and Biology
Coleman, Annawave..........Hastings
Latin and English
De Witt, Amaretta..........Spring Lake
German and History
Doerr, Lester..........Traverse City
English and Economics
Elliott, Violet..........Elkton
Latin and English
Halteman, Clarence..........St. Louis
Mathematics and Physics
Johnston, Edward..........Yale
History and French
Lansing, Vernon..........Bay City
Psychology and Philosophy
McAllister, Robert..........Oak Park, Ill.
History and Economics
MacAuley, J. A. Bannerman..........Calumet
Philosophy and English
Markham, Pauline..........Charlevoix
Biology and English
Porter, Fred..........Milford
Mathematics and Chemistry
Resseguie, Lydia..........Alma
French and Education

Ritter, Wilhelmine....................New York City, N. Y.
English and German
Robinson, Chester ....Plainwell
History and Philosophy
Titus, George Carl....................................Alma
Mathematics and German
Udelle, Elfleda...Alma
English and History
Ward, Edna ....Charlevoix
Mathematics and German

JUNIORS

Baker, Helen...................Thessalon, Ontario, Canada
Mathematics and Physics
Batie, Olive....................................Bad Axe
History and Economics
Bittner, Frank..Alma
Mathematics and Chemistry
Brown, Bess ....Farwell
Kindergarten and French
Coleman, Earl ....Hastings
History and German
Cooper, Marion....................................Lansing
Kindergarten and German
Craig, Ralph............................Sault Ste. Marie
Mathematics and Chemistry
Creaser, Elizabeth...................................Alma
Chemistry and Physics
Cummings, Clifford.................................Alma
Mathematics and English
De Rousie, Mary.................................Detroit
English and Education
Depew, Chas...Caro
French and Mathematics
Doane, Marie..Alma
Latin and English
Ellis, Lula ....Alma
History and English
Fitch, Leland.....................................Marlette
Mathematics and Biology

French, Gordon....................................Petoskey
History and Biology
Gallagher, Fletcher................................Bay City
Chemistry and Physics
Harris, Lee ....Hudson
Chemistry and Mathematics
Hoolihan, Emmot.............................Mt. Pleasant
History and Biology
Hooper, Ruth ....Alma
Latin and German
Kennedy, Charles...............................Chicago, Ill.
Chemistry and Biology
Lampman, Harold....................................Clare
Chemistry and Mathematics
Layer, Edith.......................................Unionville
English and German
Melvin, Linton....................................De Tour
History and Chemistry
Miller, Leo ....Hudson
Mathematics and Chemistry
Murphy, Wm...Alma
Chemistry and German
Rather, Laura..Alma
German and English
Richards, Verne....................................Detroit
History and English
Sanchez, Eliud.........................Pajarito, New Mexico
French and English
Sarvis, Lewis.......................................Detroit
Philosophy and English
Schermerhorn, J. Ross...........................Bad Axe
Mathematics and Chemistry
Smith, Donald.......................................Alma
History and Economics
Smith, Lucille.......................................Wheeler
Mathematics and History
Street, Carl...Wheeler
Mathematics and Physics
Tuck, Hazel..Marlette
French and Music
Vender, Melvin....................................Bad Axe
Philosophy and English

Wales, Emma .... Detroit
English and Pedagogy
Warner, Stanley .... Howell
History and English
Watkins, Gladys .... Milford
Kindergarten and English

SOPHOMORES

Ardis, Emberson .... McBain
Beck, Louise .... Detroit
Blair, Wm. M .... Elm Hall
Burtch, Howard .... Howell
Case, Alton .... Benzonia
Cash, Paul .... Alma
Clark, Hollis .... Alma
Craker, Ruth .... Omena
Davies, Myrddyn .... Peckville, Pa.
Dietzel, Hugo .... Prescott
Doty, Ellen .... Breckenridge
Dutt, Ruth .... Alma
Foote, James Arthur .... Grand Ledge
Fulcher, William .... St. Louis
Gates, Erma .... Bay City
Gillard, Grace .... Alpena
Goodwillie, Catherine .... Ann Arbor
Goschenhofer, Phyllis .... Detroit
Green, Vernie .... Deckerville
Hall, Josephine .... Grand Ledge
Hebert, George .... Detroit
Hildreth, Lillian .... St. Louis
Howe, Florence .... Paw Paw
Jackson, Thomas .... Chicago, Ill.
Keller, Emma .... Sault Ste. Marie
Koepfgen, Beatrice .... Cass City
Lind, Ellyn .... Bay City
McConkey, Mildred .... Alma
Maltby, Lee .... Munger
Merriman, Kenneth .... Deford
Miller, Lura .... Alma
Nunn, Iva .... St. Louis
O'Neill, Helen .... Sault Ste. Marie
Parker, Fred .... Caro
Peters, Gertrude .... Tecumseh
Ramsdell, Gene .... Manistee
Reiser, Josephine .... Cadillac
Resseguie, Nina .... Alma

Rose, Rowena	Traverse City
Seeley, Clinton	Caro
Smith, Malcom	Alma
Smith, Norman	Marlette
Spooner, Carlton	Ithaca
Swanson, Bertha	Newberry
Thurau, Fred	Bay City
Wight, Vern	St. Louis
Yerkes, Alice	Northville

FRESHMEN

Adams, Robert McRea	Alma
Anderson, John Melvin	Boyne City
Ardis, Eva Ruth	McBain
Baribeau, Claude Russell	Grand Ledge
Battersbee, Edith Elizabeth	Croswell
Bay, Franklin Ernest	Calumet
Boyne, Edwin	Marlette
Blackman, Alice Louise	Wellsville, N. Y.
Boer, Ruth Janet	Grand Haven
Bretz, Delora Irene	Napoleon, Ohio
Brooke, Bernice	Ithaca
Bryce, H. Francis	Grand Haven
Burnett, Margaret May	Engadine
Carey, Eloise	Harbor Springs
Case, Dorothy	Honor
Cash, Mildred Lucile	Alma
Cole, Charles A	Allegan
Crawford, Marguerite Isabelle	Sault Ste. Marie
Creaser, Charles Wm	Alma
Currie, Eleanor Spence	Detroit
Dean, Ralph M	Vermontville
Dickinson, Blanche Irene	Alma
Dunham, Dorothy Duckworth	Detroit
Dyer, Marguerite E	Sault Ste. Marie
Eggleston, Olive L	Parma
Ellsworth, Mary G	Alpena
Finlayson, John L	Calumet
Follette, Allen	Coldwater
Foote, Edward A	Grand Ledge
Gill, Cleo B	Alma
Grimes, Homer Winder	Ceresco
Grimm, Helen Gertrude	Alma
Grow, Hazel M	Alma
Hall, Margaret L	Bad Axe
Harris, Victor J	St. Louis
Hatch, Jean	Cleveland, Ohio

Hawes, Charlotte E.	Coldwater
Hicks, W. J. B.	St. Louis
Hoatson, Allan J.	Calumet
Holt, Fred	Alma
Hooper, Raymond G.	Elk Rapids
Hudson, Wayne W.	Middleton
Hurst, Paul H.	Fairgrove
Jackson, Jean McColl	Croswell
Jennings, Mabel Ellen	Chicago, Ill.
Krueger, Floyd H.	Chicago, Ill.
Laman, Minnie Ellen	Tustin
Lonie, David Donald	Bay City
Lott, John R.	Ithaca
Lyon, Hartzell	Crystal
Marsh, Rolland	Harbor Springs
Martelle, Forrest R.	Detour
Martin, Murry J.	Boyne City
Mashin, Blanche R.	Chicago, Ill.
McCracken, U. B.	Crystal
McFadyen, Elizabeth	Howell
McKay, Ola Arlene	Brown City
McKinney, E. La Reine	Flint
Millard, Harold W.	Battle Creek
Milligan, Nellie	Breckenridge
Mitchell, Ruth	Charlevoix
Monk, Ralph Theodore	Alma
Netzorg, Muriel	Elsie
Palmer, Lela Mary	Pontiac
Parsons, Helen N.	Charlevoix
Payn, McKinley	Howell
Perrigo, Clair Albert	St. Louis
Peters, Howard Floyd	Flowerfield
Reid, Elizabeth	Chicago, Ill.
Sawvel, Ralph W.	Breckenridge
Scanlon, Howard K.	Michigamme
Sieg, Louis Wm.	Detroit
Shankel, Hazel	Alma
Simenton, George	Marlette
Spring, Marie M.	Unionville
Stein, Rae	Harbor Springs
Stone, Lulu Violet	Clare
Sullivan, Frank Chas.	Coldwater
Tatroe, Leone A.	Monroe
Tompkins, Fida	Old Mission
Tompkins, Robert Hurst	Old Mission
Trautman, Francis F.	Elk Rapids
Van Duzen, Dale	Breckenridge
Van Lopik, Katherine	Grand Haven

Veeder, Doris Edna	Clare
Vogt, Bertha	Coldwater
Walker, Myrtle	Crystal
Walker, William	Crystal
Ward, Hulda	Alma
Wenger, Carroll Eugene	Saginaw
Wheaton, Zoa V	Alma
Wright, Thomas	Detroit

SPECIAL COLLEGE STUDENTS

Dunlap, Cora S	Alma
Henson, Mabel	Ashley
Lockwood, Guy	Alma
McKee, Mrs. Paul	Alma
McKee, Paul LeRoy	Alma
McLaren, Annette	Alma
Moon, Clayton B	Greenville
Moorehouse, Lily H	Homer, Ohio
Rather, Violette A	Alma
Shaw, Gertrude	Boonton, N. J.
Stitt, Frances M	Alma
Swigart, Edna Mary	Alma
Tomer, J. W	Savona, N. Y.
Waninger, Katharine	Detroit
Winn, Margaret	Alma

VOICE STUDENTS

Ardis, Emberson	McBain
Austin, Paul	Alma
Ballou, Adelaide	Stanton
Beebeck, H. R	Alma
Benedict, Gertrude	Alma
Beshgetoor, Ray	Alma
Bittner, Frank	Alma
Boer, Ruth	Grand Haven
Bradner, Gladys	Oakland, Calif.
Carey, Eloise	Harbor Springs
Coleman, Earl	Hastings
Craker, Ruth	Omena
Doane, Marie	Alma
Dungay, Julia	Hemlock
Eggleston, Olive	Parma
Gerhardt, Mrs. J. A	Alma
Goll, Lillian	Breckenridge
Goschenhofer, Phyllis	Detroit

Gossett, Georgianna	Alma
Green, Vernie	Deckerville
Grimes, Homer	Ceresco
Hamlin, Marjorie	St. Louis
Henson, Mabel	Ashley
Hooper, Ruth	Alma
Jackson, Thomas	Chicago, Ill.
Lampman, Harold	Clare
La Rue, J. D.	St. Louis
Lathrop, Lucile	St. Louis
Laughlin, Grace	Alma
Loynes, Jane	St. Louis
McDonald, Blanche	Merrill
McKenzie, Mrs. Josephine	Alma
McKinney, La Reine	Flint
McPherson, Marian	St. Louis
Markham, Pauline	Charlevoix
Moon, Clayton	Greenville
Mudge, Mabelle	St. Louis
Nelson, Fern A.	Alma
Parker, Fred	Caro
Reiser, Josephine	Cadillac
Resseguie, Nina	Alma
Robinson, Chester	Plainwell
Seeley, Clinton	Caro
Sherman, Joan	St. Louis
Smith, Don	Alma
Soule, Henry	Alma
Stone, Lulu	Clare
Street, Carl	Wheeler
Street, Ethel	Wheeler
Sweet, Mildred	Alma
Thurau, Fred	Bay City
Tuger, Barbara	St. Louis
Ward, Edna	Charlevoix
Wolford, Beatrice	Alma

PIANO STUDENTS

Amsbury, Laura	Elwell
Ballou, Adelaide	Stanton
Boer, Ruth	Grand Haven
Bretz, Delora	Napoleon, Ohio
Burnett, Margaret	Engadine
Carey, Eloise	Harbor Springs
Cornwell, Madge	Ashley
De Witt, Florence	Wheeler
Doty, Ellen	Breckenridge

Fletcher, Mildred A.	Alma
Fulcher, Wm.	St. Louis
Hall, Josephine	Grand Ledge
Henson, Mabel	Ashley
Lewis, Gertrude	Ashley
Lind, Ellyn	Bay City
Lockard, Irene	Alma
Matthews, Alma	Riverdale
Milligan, Nellie	Breckenridge
Moon, Clayton	Greenville
Mudge, Mabelle	St. Louis
Nelson, Nellie	Alma
Palmer, Ethel	North Star
Palmer, Ruth	Alma
Ramsdell, Gene	Manistee
Rather, Violet	Alma
Reed, Mabel	Alma
Rose, Hope	Ashley
Rose, Rowena	Traverse City
Sabin, Ethelyn	Breckenridge
Seaman, Ovid	Sumner
Stein, Rae	Harbor Springs
Stevens, Oneita	Breckenridge
Swanson, Bertha	Newberry
Swigart, Edna	Alma
Tuck, Hazel	Marlette
Van Lopik, Katherine	Grand Haven
Veatch, R. F.	Alma
Veeder, Doris	Clare
Ward, Edna	Charlevoix
Yerkes, Alice	Northville

SUMMARY

The College	213	
Music Dep't	87	
		300
Names Duplicated in Music and College Dep'ts		47
Total attendance for year		253

LIST OF ALUMNI

Class of 1891

Bernice Hunting, A. M., Missionary...........Tripoli, Syria
Temporary address.......541 Lexington Ave., New York
Rev. Alfred Pratt, Pastor Presbyterian Church,
....Campbell, N. Y.
Bertha May Trask, Teacher...220 Washington Ave., Saginaw

Class of 1892

Ralph C. Ely, Attorney..................Santa Fe, N. Mex.
Francis W. Eply, Prof. of Physics and Chemistry,
....................975B Clayton St., San Francisco, Cal.
Mrs. J. C. Hubbard (Katherine Slater),
..............................502 E. Ann St., Ann Arbor
Mrs. H. P. Streng (Mary Cook)..512 S. Park St., Kalamazoo

Class of 1893

Rev. Charles F. Blanchard, Pastor Presby. Church..Marshall
Mary C. Hill..................806 Grand Traverse St., Flint
Mary Olive Hunting......600 N. Buxton St., Indianola, Iowa.
James E. Mitchell, A. M., Prof. History and
Political Science...................................Alma
*Mrs. James E. Mitchell (Lucy Plum).
*Herrick J. Ransom.
Mrs. F. D. Sherman (Bessie McLean),
....................111 Fisher Ave., White Plains, N. Y.
Mrs. Alfred F. Waldo (Josephine Hodges),
.........................Scottswood Road, Riverside, Ill.

Class of 1894

Mrs. L. V. Cram (Esther Marsh)...101 Rowena St., Detroit
Frank L. Marsh (Electrical Engineer),
.........................245 Crescent St., Grand Rapids

Class of 1895

Rev. Ralph T. Flewelling, Ph. D., Pastor M. E. Church,
.........................399 Broadway, Cambridge, Mass.
Arthur LeRoy Toner, Salesman,
..........................664 Lucas St., Los Angeles, Cal.
A. B. Wight, Principal Talcott School, Chicago;
Home...............316 N. Schoville Ave., Oak Park, Ill.

*Deceased.

Class of 1896

Rev. Lewis S. Brooke, D. D., Pastor Presbyterian Church ....Howell
Fred Fullerton, A. M., Life Insurance, ...312 Carter Block, Jackson
Anna Girmus......................521 Thayer St., Saginaw
Winifred F. Heston, M. D...........Whitney Bldg., Detroit
William A. Howe, Supt. Schools........Ocean Park, Wash.
Elizabeth Jones, Teacher......................Roseville, Cal.
Mrs. J. A. McKee (Clara Booth)..........Westminster, Cal.
Edward C. Marsh, Vice-Pres. Macmillan Co., 64-66 Fifth Ave., New York; Home...39½ Washington Square
Joseph T. Northon, Supt. Schools..................Marlette
*Richard Sidebotham.

Class of 1897

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Mrs. K. P. Brooks (Gratia Dunning)..........Mt. Pleasant
Letta B. Burns, Teachers' Training College, Jamaica, New York; Home...............133 Hewes St., Brooklyn
Rev. Jacob Klasse, Pastor Presby. Church..Clarence, N. Y.
Rev. A. J. Van Page..........437 S. 6th St., La Grange, Ill.

Class of 1898

Rev. Birdsey S. Bates, Pastor Knox Presbyterian Church, St. Paul, Minn.; Home.......1716 Van Buren St.
Mrs. B. S. Bates (Frances Adams), ...1716 Van Buren St., St. Paul, Minn.
Paul H. Bruske, Advertising Agent..................Detroit
James I. Crane, Supt. Schools.................Krupp, Wash.
Rev. Sherman L. Divine, D. D., Pastor First Presbyterian Church....................................Spokane, Wash.
Elmer Eckard, M. D., Central Bank Bldg........Peoria ,Ill.
Rev. Maurice Grigsby, Pastor Presbyterian Church..Hastings
Frank Knox, President and Editor Union Leader Publishing Co., Manchester, N. H.; Home.....116 Everett St.
Rev. William H. Long, Pastor Presby. Church......Brooklyn
Franklyn Warren McCabe, Insurance, ...1147 Gordon Ave., Los Angeles, Cal.
Mrs. W. E. Myler (Mertha Peters), ...153 Douglas St., Los Angeles, Cal.
Rev. Charles Ernest Scott, D. D., Missionary, Tsingtau, Shantung, China; Temporary address, 240 Linden Ave., ...Holyoke, Mass.

---

*Deceased.

Rev. John B. Stevens, Pastor Northern Light Church, ...Juneau, Alaska

Class of 1899

*Frances Thorne Booth.
Mrs. J. T. Clark (Maud Bishop)............Harbor Springs
Rev. Weston T. Johnson, Presbyterian Missionary, ...Sapporo, Japan
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George B. Randels, Ph. D., Professor of Philosophy and Education, Alma College..........................Alma

Class of 1901

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.....................656 W. Marquette Road, Chicago, Ill.
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*Mrs. Fred H. Jones (Annabelle Chisholm).
Mrs. Geo. C. Lorenz (Daisy L. Hard)......Colville, Wash.
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Watson B. Robinson, Attorney, 60 Wall St., New York, N. Y.; Home...............Grenwolde, Great Neck, L. I.
Rev. C. W. Sidebotham, A. M., Pastor Grace Presbyterian Church, Milwaukee, Wis.;Home...........569 Ellen Ave.
Winifred G. Trapp, Teacher.....413 W. Superior St., Alma

Class of 1902

John N. Booth, Teacher Westport High School, Kansas City, Mo.; Home address................634 West 40th St.

*Deceased.

Wesley Bradfield, Museum Asst., Museum of New Mexico and School of Am. Archaeology......Santa Fe, N. Mex.
William E. Brock, Lumber and Mining Business, ...43 E. 10th St., New York, N. Y.
Rev. William J. Ewing, Pastor Presbyterian Church, ...Villisca, Ia.
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Agnes Hope...St. Johns
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Class of 1903

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Henry H. Soule, Contractor............804 River Ave., Alma
Laura B. Soule, Teacher...............804 River Ave., Alma
Margaret K. Taylor, Instr. Univ. Chicago., ...5701 Kenwood, Chicago
Alice B. Thompson, A. M., Principal Kohola Girls' School, ... Hawaii
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*Frank R. Hurst.

*Deceased.

Mrs. F. R. Hurst (Bertha Higbee)..............Alma, Mich.
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Class of 1905

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Class of 1906

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Howard Potter, County Commissioner Schools........Ithaca
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*Deceased.

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Class of 1908

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Harry W. Helmer, Athletic Dir. Alma College.........Alma
Mrs. S. B. Hill (Elvena Hoover)................Kawkawlin
Rev. George P. Horst, D. D., Second Presbyterian Church, ...1307 Gallia St., Portsmouth, Ohio
Rev. Herman N. Morse, Sec'y Bennington County Improvement Ass'n....Room 1006, 156 Fifth Ave., New York
Gladys Nelson..........137 N. Scoville Ave., Oak Park, Ill.
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Ralph E. Raycraft, A. M., Supt. Schools..............Wayne
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George D. Sutton, A. M., Physician........Rochester, Minn.

Class of 1909

Mrs. Ernest F. Barker (Emma M. Swigart), ...London, Canada
Byron J. Chapel, Merchant........................Deckerville
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Maynard A. Cook, M. E., 106 W. Lake St., Chicago; Home...............................7044 Greenview Ave.
Harry A. Craig, Supt. Schools..................Charlevoix
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Rev. Mark L. Marshall Pastor Presbyterian Church....Ionia
Theodore Nelson, Teacher, Austin High School; Home...............137 N. Scoville Ave., Oak Park, Ill.
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Class of 1910

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Stanley A. Graves, care Ford Motor Co., ...131 Pacific Ave., Detroit
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Selma O. Hahn, Y. W. C. A. Sec'y..................Detroit
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Isabel Stevens, H. S. Teacher....................Dixon, Cal.
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Robert H. Cook, Life Insurance.........Glens Falls, N. Y.

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*Deceased.

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Ruth E. Hovey, Teacher.....................Mayville, Mich.
Robert F. Hume, Chemist......210 S. 4th St., DeQuesne, Pa.
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Mrs. W. A. Ewing (Marguerite Rachael O'Neill), ...315 Grant Ave., Alma
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Rev. Wade L. Frost, Cong. Church.............Carson City
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William Allen Hooper, Hardware...Clairmont, Alb., Canada
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J. L. D. B. Landon, Auburn Theo. Sem.......Auburn, N. Y.
Bernice Edna Latson, H. S. Teacher...............Newaygo
Mrs. C. L. McCallum (Bernice Walker), H. S. Teacher, ...Carson City
Oral M. Misenar, Supt. of Schools................Northville
Chalmers A. Monteith, Western Elec. Co., ...3210 Arthington St., Chicago
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Ruth Marian Robbins, H. S. Teacher Math...........Lapeer
Claude Webster Satterlee, A. M., H. S. Teacher, Grand Rapids
Della Struthers, H. S. Teacher...................Elk Rapids
Rev. Edwin Archibald Thompson, Pastor Park Cong. Church...................................Greeley, Colo.

Rex E. VanDuzen, Medic., U. of M., 812 E. Catherine St., Ann Arbor; Home..........................Breckenridge
Lester von Thurn, Ins.....522 Walnut St., Philadelphia, Pa.

Class of 1914

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Rose Carol Gray, Psychological Expert.............Chicago
Theodore Shirley Higbee, Republic Motor Truck Co..Alma
Milo Arthur V. Hogan, Business.....................Detroit
Mrs. Milo Hogan (Emily E. Beach), ...2799 Woodward Ave., Detroit
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Carroll C. Hyde, Medic., U. of M., Ann Arbor; Home, ...Addison
Fred Samuel Johnson..............................Cadillac
Alice Virginia Kennedy, Student at Sargeant School of Physical Education.....................Cambridge, Mass.
Archie Ruben Maybee, H. S. Teacher...............Morenci
F. Roy Phillips, Prin. H. S........................Marlette
Verne E. Rogers, H. S. Teacher................Decatur, Ill.
Meryl Lora Seaver, Teacher of Latin and German..Coleman
Walter Albert Vogt, Business..................Manchester

Class of 1915

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Paul Henry Austin, Business, Republic Truck..........Alma
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Maurice Cole,, Prin. High School..................Allegan
Sidney Perry Cook, Journalism, care Detroit *News,* Detroit; Home...........158 Beresford Rd., Highland Park
Gladys Noll Dershem, H. S. Teacher...............Owosso
Albert James Esselstyn, Teacher....................Lansing
Theodore Gates.....................Penn. State College, Pa.
Clarence R. Goodrich, Business......................Ithaca
Esther Halverson, Prin. High School............Mt. Morris
Lula Mae Huber, H. S. Teacher.................Elk Rapids
Harry Donovan Jackson, Barrett Mfg. Co., ...371 Jay St., Detroit
Milton Jackson, Dodge Motor Co........371 Jay St., Detroit
Ilma E. Johnson, H. S. Teacher...............Traverse City
Joseph Leroy Kennedy, McCormick Theo. Seminary, Chicago
Bryson A. McCloy, Prin. High School............Northville

Beulah Parr, H. S. Teacher........................Wyandotte
Ralph Edgar Peacock, Chemist.
Arthur Hartt Simenton, H. S. Teacher.....Harbor Springs
Esther Smith, H. S. Teacher....430 Main St., Mt. Pleasant
Ethel Grace Thompson..........................Grand Haven
Addison Vincent Wilson, McCormick Theo. Seminary,
.... Chicago
Alger H. Wood, Instructor and Athletic Director,
....Doane College, Neb.

Class of 1916

Oscar M. Anderson, care Union Motor Truck Co., Bay City
Edward Bahlke, Business................371 Jay St., Detroit
Alonzo W. Beshgetoor.........Purdue Univ. Lafayette, Ind.
Marcia Ann Carl, Student at Chicago Training School,
Chicago.......................4949 Indiana Ave., Chicago
Ralph Chisholm, Merchant.....................Breckenridge
Auda Cleo Gill, Teacher of Mathematics..............Clare
Bernice M. Ireland, Teacher.......................Coldwater
T. E. Johnson, Supt. of Schools..................Coldwater
Otha McCracken, Teacher of Mathematics..........Reading
Montie McFarlane, H. S. Teacher....W. Oliver St., Owosso
Arthur John McIntyre, Teacher.......................Beacon
T. Lucille McQuade, Teacher..........................Elsie
Alfred Garlock Papworth, Grad. Student at U. of M.,
....Ann Arbor
Marion Louise Parsons, Teacher...................Coleman
Thomas Arnold Robinson, Student at Columbia Univ.
School of Journalism....................New York City
Ruth Stacy, Teacher........................Howard, Kansas
Harry Staver, Student at McCormick Theo. Sem., Chicago,
...........................2330 N. Halstead St., Chicago.
Verne Levi Van Duzen, Business....................Alma

FORM OF BEQUEST

"Item—I hereby give, devise, and bequeath to Alma College, a corporation organized and existing under the laws of the State of Michigan, of Alma, Gratiot County, Michigan, the sum of..............Dollars, to it absolutely."

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The Principal will return this Certificate by mail to the Registrar of Alma College, Alma, Michigan.

ALMA COLLEGE

This part of the form is to be filled out by the candidate.

Name ....
Write all names in FULL, including the MIDDLE name.

Date of birth..*Place of birth*..................................

Where prepared for college..

Home address...

Name of parent or guardian..

Address of parent or guardian...

This part of the form is to be filled out by the Principal.

RECOMMENDATION FOR ADMISSION TO THE COLLEGE

Admitted on..*from*...................................*School*

to..*Course.*

....*Registrar.*

The Principal will return this Certificate by mail to the Registrar of Alma College, Alma, Michigan.

ALMA COLLEGE

This part of the form is to be filled out by the candidate.

Name ....

Write all names in FULL, including the MIDDLE name.

Date of birth .... *Place of birth* ....

Where prepared for college ....

Home address ....

Name of parent or guardian ....

Address of parent or guardian ....

This part of the form is to be filled out by the Principal of the High School.

RECOMMENDATION FOR ADMISSION TO THE COLLEGE.

Date .... *191*......

M .... *is a* {*student* / *graduate*} *of the* ....

High School in the .... *Course, Class of* ....; *has pursued the studies recorded on the following page with the success indicated by the attached standing; and is hereby recommended for admission to the Freshman Class of Alma College.*

Pass mark of School .... *Studies per day* ....

REMARKS

(The Principal is requested to give here a general estimate of the work and character of the student)

.... *Principal.*

This part of the form is to be filled at the College.

Admitted on .... *from* .... *School*

to .... *Course.*

.... *Registrar.*

Alma College Bulletin

Vol. 14, No. 3
March, 1917
Published monthly by the College
ed as second class matter, April 20, 1904, under act of Congress,
July 16, 1894

STUDIES	STANDING	TEXT BOOKS	TIME IN W'KS AND HOURS PER WEEK	REMARKS
English Grammar and Composition				
Rhetoric				
English Literature...........				
Greek Lessons...............				
Xenophon				
Homer				
Prose Composition				
German Grammar...........				
German Authors				
German Composition........				
French Grammar............				
French Authors.............				
French Composition.........				
Additional Subjects..........				

STUDIES	STANDING	TEXT BOOKS	TIME IN W'KS AND HOURS PER WEEK	REMARKS
English Grammar and Composition				
Rhetoric				
English Literature				
Arithmetic Review				
Higher Arithmetic				
Algebra, Elementary				
Algebra, Higher				
Geometry, Plane, Solid and Spherical				
U. S. History				
General History				
Civil Government				
Physiology				
Botany				
Geology				
Physics				
Physiography				
Chemistry				
Astronomy				
Latin Lessons				
Cæsar				
Cicero				
Ovid				
Vergil				
Prose Composition				
Greek Lessons				
Xenophon				
Homer				
Prose Composition				
German Grammar				
German Authors				
German Composition				
French Grammar				
French Authors				
French Composition				
Additional Subjects				

Address inquiries of all kinds except those noted below, to The President, Alma College, Alma, Mich.

High School principals will send entrance blanks to The Registrar, Alma College, Alma, Mich. Requests for credits should also be addressed to the Registrar.

Send checks for room deposits, tuition, board, etc., to The Secretary, Alma College, Alma, Mich. Make checks payable to Alma College.

L
RGH
917/18

Alma College

Alma, Michigan

Catalogue for 1917-1918
Announcements for 1918-1919

REGISTRAR'S ... FICE
BROWN UNIVERSITY
PROVIDENCE - - R. I.

IN NOMINE DEI, AMEN

"Resolved, That in view of all the facts brought before us, we will, with God's help establish and endow a college within our bounds."

—Synod of Michigan, Grand Rapids, Oct. 14, 1886.

ALMA
COLLEGE

CATALOGUE
1917-1918

Announcements
1918-1919

ALMA, MICHIGAN

Calendar

1918			
May	3	Friday	Campus Day.
May	19	Sunday	Address before the Christian Associations, 3 P. M.
May	23	Thursday	Final Examinations begin.
May	26	Sunday	Farewell Communion, 10 A. M.
			Baccalaureate Address, 7:30 P. M.
May	27	Monday	Class Day.
			Class Day Exercises, 8 P. M.
May	28	Tuesday	Alumni Day.
			Meeting of Board of Trustees, 10 A. M.
			Meeting of Alumni Association, 1 P. M.
			Senior Promenade, 8 P. M.
			President's Reception, 9 to 11 P. M.
May	29	Wednesday	Commencement Day.
			Commencement Exercises, 10 A. M.
			Commencement Luncheon, 1 P. M.

SUMMER VACATION

July	17	Wednesday	Alma College Assembly.
Sept.	16	Monday	Registration, 1:30-4:30 P. M.
Sept.	17	Tuesday	Registration continued.
			Late Registration Fee operative at 12 noon Wednesday.
Sept.	18	Wednesday	First Term begins, 9 A. M. Opening Address.
Oct.	14	Monday	Founders' Day.
Nov.	27	Wednesday	Thanksgiving Recess begins, 12 noon.
Dec.	2	Monday	Thanksgiving Recess ends 1:15 P. M.
Dec.	20	Friday	First Term ends, 12 noon.

WINTER VACATION

1919			
Jan.	7	Tuesday	Second Term begins, 8 A. M.
Jan.	14	Tuesday	Mid-year Meeting of Board of Trustees.
Jan.	27	Monday	Semi-annual Examinations begin.
Jan.	31	Friday	First Semester ends.
Feb.	3	Monday	Second Semester begins.
Feb.	13	Thursday	Day of Prayer for Colleges.
March	21	Friday	Second Term ends, 12 noon.

SPRING VACATION

April	1	Tuesday	Third Term begins, 8 A. M.
June	11	Wednesday	Commencement Day.

The Corporation

TRUSTEES

CLASS OF 1918.

- Rev. Lewis S. Brooke, A.M., D.D., Howell.
- Francis King, A.B., Alma.
- Ira M. Hatch, Rockefeller Building, Cleveland, Ohio.
- Mrs. James Henry Lancashire, 7 E. 75th St., New York.
- Leonard Laurense, Leib and Wight Sts., Detroit.

CLASS OF 1919.

- Prof. Kendall P. Brooks, A.M., Mt. Pleasant.
- Rev. James M. Barkley, D.D., LL.D., 144 Woodland Ave., Detroit.
- M. W. Tanner, Saginaw.
- Rev. Daniel Stalker, D.D., Calumet.
- Prof. Elmer A. Lyman, A.B., Ypsilanti.

CLASS OF 1920.

- Lee M. Hutchins, Grand Rapids.
- Charles Moore, Ph.D., 197 Parker Ave., Detroit.
- John F. Seeley, Caro.
- William Winton, A.B., 9 Brainard St., Upper Montclair, N. J.
- Lester A. Sharp, C.E., Alma.

CLASS OF 1921.

- Clarence B. Chatfield, Bay City.
- W. O. Hughart, Jr., Michigan Trust Building, Grand Rapids.
- Rev. Willard K. Spencer, D.D., Ionia.
- Robert S. Tracy, Sturgis.
- John W. S. Pierson, Stanton.

Officers of the Board of Trustees

James M. Barkley	Chairman
Francis King	Vice-Chairman
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Sharp, Chatfield, Tanner; Barkley, Chairman of Board of Trustees, ex-officio; King, Chairman of Finance Committee, ex-officio; Consulting Members, The President and the Dean; Albert P. Cook, Secretary.

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King, Sharp, Chatfield, and Lyman.

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LIBRARY AND MUSEUM.

Pierson, Hutchins, and Laurense.

CURRICULUM.

Brooks, Spencer, and Winton.

FACULTY AND INSTRUCTORS.

Sharp, Brooks, and King.

ENDOWMENT.

Hatch, Moore, Hughart, Hutchins, Tanner, Barkley, Winton, and President Crooks.

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Mrs. James W. Robinson	Alma
Mrs. Charles G. Rhodes	Alma
Mrs. Harry M. Crooks	Alma

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Rev. James M. Barkley, President of the Board of Trustees. Address 144 Woodland Avenue, Detroit.

Albert B. Sheldon, Special Representative, Alma.

MICHIGAN SYNOD COMMITTEE ON COLLEGES

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Rev. John Comin	Three Rivers
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Rev. A. D. Grigsby	Morrice
Rev. Joseph M. Rogers	Omena
Rev. Wm. H. Mason, D. D	Alma
Rev. J. R. McWilliams	Fenton

The Faculty

HARRY MEANS CROOKS, A. B., LL. D.
President. 801 West Superior Street.

JOHN T. EWING, A. M., LITT. D.
Alexander Folsom Professor of Classics.
315 Grant Avenue.

JAMES E. MITCHELL, A. M.
Ammi W. Wright Professor of History and Political Science; Dean of the Faculty. 518 State Street.

FRANK N. NOTESTEIN, Ph. D.
Ammi W. Wright Professor of Mathematics and Astronomy. 627 West Center Street.

FRANCIS E. WEST, M. Sc.
Wright-Davis Professor of Chemistry; Secretary of the Faculty. 220 Maple Avenue.

*HANSFORD M. MACCURDY, Ph. D.
Nathan B. Bradley Professor of Biology and Geology. 701 West Center Street.

GEORGE B. RANDELS, Ph. D.
Professor of Philosophy and Education. 301 Grant Avenue.

ALBERT P. COOK, A. M.
Assistant Professor of Latin. 611 West Center Street.

CHARLES D. BROKENSHIRE, A. M., B. D.
Synod of Michigan Professor of Biblical Literature and Religious Education. 502 West Superior Street.

H. LOTHAR BOBER, D. C. L.
Wells Professor of Modern Languages. 510 West Superior Street.
Gelston Professor of English Speech.

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* On Sabbatical leave of absence, 1917-1918.

LOUIS A. STEARNS, A. B., M. Sc.
Acting Professor of Biology. 412 Maple Avenue.
DAVID W. CORNELIUS, Ph. D.
Professor of Physics. 527 West Center Street.
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Instructor in French and English. Wright Hall.
CAROLEEN ROBINSON,
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GRACE D. ROBERTS,
Piano and Pipe Organ. Wright Hall.
*REESE F. VEATCH,
Vocal Music and Harmony.
MARGUERITE CONYNE,
Instructor in Kindergarten Training. Wright Hall.
HARRY W. HELMER, B. S.
Director of Physical Training for Men. 526 College Street.
Director of Physical Training for Women.
HELEN B. COOK, A. B.
Librarian and Instructor in Library Methods. 611 West Center Street.
SCHUYLER W. HORTON,
Vocal Music and Harmony. 627 West Center Street.

STANDING COMMITTEES OF THE FACULTY

1917-1918

ADMISSION AND SCHEDULES.
Ewing, Mitchell, Bober.
AID TO STUDENTS.
Crooks, Ewing, Cook.

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* On leave of absence in army service.

APPOINTMENTS.
Randels, Mitchell, Miss Robinson.
ATHLETICS.
Randels, Crooks, Helmer.
BUILDINGS AND GROUNDS.
Cook, Notestein, MacCurdy, Stearns, Miss Robinson.
COMMENCEMENT EXERCISES.
Crooks, Notestein, Horton, Miss Robinson.
CURRICULUM.
Ewing, Mitchell, Randels, Cornelius, Brokenshire.
LIBRARY.
Notestein, Brokenshire, Miss Roberts, Miss Cook, Miss Foote.
MUSEUM AND APPARATUS.
West, MacCurdy, Cornelius.
PIONEER HALL.
Mitchell, Crooks, Helmer.
PUBLICATIONS.
Crooks, Ewing, Cook, Mitchell, Brokenshire.
SOCIAL LIFE.
Crooks, Dean Roberts, Dean Mitchell, Conyne, West.
RELIGIOUS EXERCISES.
Brokenshire, Randels, Notestein, Dean Roberts.
TEACHERS.
Crooks, Mitchell, Ewing.

OFFICERS OF ADMINISTRATION

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801 West Superior Street
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518 State Street
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Wright Hall.
ALBERT P. COOK, A. M....Sec'y and Ass't Treasurer
611 West Center Street.

JOHN T. EWING, A. M., Litt. D............Registrar
315 Grant Avenue.
HELEN B. COOK, A. B....................Librarian
611 West Center Street.
MISS T. ALBERTSON.........Matron of Wright Hall
Wright Hall.
WILHELMINE A. RITTER, A. B..Sec'y to the President
Wright Hall.
CHARLOTTE HAWES...............Ass't to the Dean
Wright Hall.
ROWENA ROSE................Ass't to the Registrar
Wright Hall.
BLANCHE MASHIN............Ass't to the Secretary
Wright Hall.

ALMA COLLEGE

Historical Sketch

LOCATION

The city of Alma, in which Alma College is located, is in Gratiot County, in almost exactly the geographical center of the lower peninsula of Michigan. It is on the Pere Marquette Railway between Grand Rapids and Saginaw, being about eighty miles from the former city and forty from the latter. It is also on the Ann Arbor Railroad, 145 miles from Toledo and eighty miles from Cadillac. Alma has no saloons, Gratiot County having been "dry" since May, 1907.

With paved and well-shaded streets, boulevard lighting, a complete sewer system, city water, electric lights, an exceptionally efficient public school system with a new high school building costing $65,000, and with numerous churches, this city of about 7,000 people has proved itself to be an unusually healthful and morally uplifting community, to which parents may safely entrust their children or to which they may move for the purpose of educating their children.

HISTORY

On a Sunday evening, in 1886, the Rev. J. Ambrose Wight preached a sermon from his pulpit in the First Presbyterian Church of Bay City, in which he emphasized the need of a Christian college in central Michigan. At the close of the service, Mr. Alexander Folsom said to Dr. Wight that he was ready to give $50,000 toward the founding of such a college.

On September 28, 1886, the committee of the Synod met in Alma and received the formal offer of this gift. At the same time Mr. A. W. Wright offered, for the town, a campus on which two buildings for educational purposes had already been erected and furnished, the whole valued at $40,000. Other friends offered to provide for professorships for five years, to add to the endowment, to give toward current expenses, and to provide a library.

The committee made its report to the Synod in the Westminster Presbyterian Church at Grand Rapids on October 14, 1886, with the result that the Synod "Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

The doors of Alma College were opened to students on September 12, 1887. Thirty-four young men and young women registered the first day. The total attendance during the year was ninety-five.

The first president of Alma College was the Rev. George F. Hunting, D. D., who served until April 20, 1891. On June 16, 1891, his successor, the Rev. August F. Bruske, D. D., LL. D., was inaugurated and served in the office until July, 1912. He was succeeded by Thomas C. Blaisdell, Ph. D., LL. D., whose term of service ended August 20, 1915. President Harry Means Crooks, LL. D., entered upon his duties in November, 1915.

In the summer of 1888 a heating plant was erected; in 1889 a library building was completed; in 1895 the gymnasium was completed; the Hood Museum was dedicated in June, 1900. Wright Hall was completed and opened its doors as the home for young women in 1902. The Davis Athletic Field was graded and enclosed in 1902, while its beautiful entrance gate was erected in 1912. During the past three years the campus has been greatly beautified by a systematic planting of trees and shrubs, while Pioneer Hall has been thoroughly renovated at a large expense and other needed improvements have been made.

Alma College has a campus of thirty-six acres. This with the buildings is valued at $175,000. The College has an endowment of about $435,000.

The material progress of Alma has been made possible by a host of friends, foremost among whom will always be mentioned Mr. Ammi W. Wright. His total gifts in addition to the endowment, in Wright Hall, in library funds, and in the payment of current expenses aggregate about $400,000. The passing of Mr. Wright on May 5, 1912 was mourned by every friend of the College, and particularly by the thouands of young people who have been blessed in their educational privileges by his liberality.

Admission to the College

REQUIREMENTS FOR ADMISSION

Each applicant for admission must satisfy the college officials that he is of good moral character. If coming from another college, he must bring a letter of honorable dismissal.

Admission is gained by (1) certificate, or (2) examination.

1. Recommended graduates of accredited high schools are admitted unconditionally if they present at least three units in English and its literature, two units in a foreign language, one unit in Algebra, one in Geometry, and one in Science. The remainder of the fifteen required units may include any of the subjects customarily offered in accredited high schools, except that not over three units of vocational work will be accepted. A unit means five recitations each week for a school year, totaling not less than one hundred twenty, sixty-minute periods in the clear. Laboratory, drawing, or shop periods not less than two hours in length are counted as equivalent to one recitation period.

Graduates of accredited high schools who are unable to present, in full, the required units listed above, may be admitted conditionally. However, such students will not be recommended to other colleges and will not be graduated until such additional work is completed as may be necessary to fulfil the entrance requirements.

2. Examinations are held at the opening of each college year for applicants who have completed an amount of work equivalent to fifteen units, but who are not graduates of accredited high schools. The

next examination will begin Monday, September 16, 1918.

Freshmen are admitted at the opening of the second semester, special arrangements being made for such matriculants.

All applicants for admission are urged to present at least two units in Latin.

Students of mature years, whose preparation is irregular, are permitted to enter classes for which they are prepared. They enter as special students, and are not regarded as candidates for a degree.

Graduates of accredited high schools who expect to enter Alma should secure from the College an application blank, or use the form inserted at the back of this Catalog. This should be filled out by the principal and forwarded by him to the Registrar of the College. If accepted, the applicant will receive a statement from the Registrar entitling him to admission.

ADVANCED STANDING

A student bringing from an approved college a statement showing that he has completed a regular course of at least one year, will be admitted to equal standing in this College. Graduates of approved normal schools will be given full credit for completed work, provided they bring a duly certified statement of the subjects pursued.

No advanced credit is allowed for subjects studied in high schools unless at least one semester of post-graduate work in them has been done.

Advanced standing in single subjects may be obtained by examination, which may be arranged for with the head of the department concerned.

REQUIREMENTS FOR GRADUATION

The standard unit of credit used in estimating college work is one recitation period a week for one semester, or one "semester-hour." In laboratory courses a two-hour period is considered equal to a one-hour recitation period. One hundred twenty hours (together with one hundred honor-points*) and two hours in Physical Training are required for graduation, making the average requirements per semester fifteen recitation periods a week. The recitation period is fifty-five minutes in length.

The subjects comprised in the college course of instruction are arranged in groups, each of which contains (a) certain subjects required of all students; (b) two major subjects; (c) general electives, the choice of which is unrestricted.

(a) The required subjects are: English, six hours; History, six hours; Science, six to eight hours; Philosophy, six hours; Biblical Literature, eight hours; Foreign Language, twelve to sixteen hours.

(b) In order to provide for intensive work the student is required by May first of his sophomore year to choose a group of two major subjects in which, with certain prerequisite courses, he must secure a credit of forty hours. For the list of groups offered in 1918-19 see below.

(c) The remainder of the one hundred twenty hours may be elected from any of the following departments of instruction of the College, due regard being paid to the limitations imposed by the program of recitations:

Astronomy
Biology
Chemistry
English
French
Geology
German
Greek
History
Latin
Mathematics
Music
Oratory
Pedagogy
Philosophy
Physics
Political Economy
Religious Education

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*For explanation of honor-points, see "Credits and Honors," page 54.

The groups from which major subjects for 1918-1919 may be chosen are:

I. Greek-Latin.
II. History-Economics.
III. English-A Modern Language.
IV. English-Latin.
V. Philosophy-A Modern Language.
VI. Latin-German.
VII. Mathematics-A Laboratory Science.
VIII. Chemistry-Biology.
IX. History-English.
X. Physics—A Laboratory Science.

Freshman Year

Required Subjects:

1. Bible, two hours, second semester.
2. English, two hours, each semester.
3. General Science, three hours, first semester.
4. Foreign language, four hours, each semester.

Optional Subjects:

1. Science or mathematics, three or four hours, each semester.
2. History, mathematics, science, a second language, three or four hours, each semester.

Sophomore Year

Required Subjects:

1. Bible, two hours, first semester.
2. English, two hours, first semester.
3. Foreign language, four hours, each semester.

Elective Subjects:

English, history, mathematics, science, seven hours in first semester, eleven hours in second semester. Choice to be made from at least two subjects.

Junior and Senior Years

In the work of these years must be included two courses in Bible, two courses in philosophy, and the work in two majors, covering from twelve to fourteen hours each. The remainder of the sixty hours may be taken in general electives.

PREPARATION FOR PROFESSIONAL COURSES

Through the group system Alma College makes provision for a liberal education, as well as special preparation for students who have in mind future professional or technical courses. Professional study is largely a matter of memory unless the student has a knowledge of those subjects which underlie and give meaning to it.

The Ministry. The student who expects to pursue advanced studies in a divinity school, should major in the Greek-Latin group, with electives in philosophy, science, and sociology. Other electives to be considered are history, literature, and public speaking. The minister familiar with the details of athletic training has a distinct advantage in dealing with boys and young men.

Law. The best professional schools make a college course a prerequisite for entrance, and all good ones require at least two years of college preparation. The student who expects to enter upon the study of law should do his major work in the History-Economics group, with electives in philosophy, mathematics, public speaking, and sociology.

Medicine. The physics, chemistry, and biology departments offer lines of major and elective work which are especially useful in preparation for the study of medicine. They are well equipped with facilities for laboratory work under competent instruction and offer a wide range of courses to pre-medical students.

A special course of one year covering biology, chemistry, physics, and a modern language, has been arranged for the benefit of students going to a medical college which requires only one year of college work for admission.

Engineering. Students expecting to enter engineering schools should do major work in physics and mathematics which together with courses in modern languages form a fundamental part of all engineering courses.

Teaching. The College makes a special provision for the needs of prospective teachers: (a) in its pedagogical courses, (b) in its special courses in the methods of teaching specific subjects, (c) in observation work and practice teaching, and (d) in its offer of a state teacher's certificate to those who meet the requirements of the pedagogical course. The student who expects to teach a particular subject, should choose it as one of his majors.

Courses of Instruction

The courses here described will probably be given within the next two years. Courses not dated are usually given yearly.

Courses whose number is odd are always given in the *first* semester; those whose number is even, in the *second* semester. The first digit in a number indicates the year in which the course is usually taken; if the second digit is 1 or 2 the course is usually introductory to later ones. Double numbers (e. g., 21-22) indicate year courses. Thus, first year or freshman courses, are numbered 11 to 19; second year courses, 21 to 29; third year courses, 31 to 39; fourth year courses, 41 to 49. Single digits (e. g., 1, 3, 8) designate courses which are not assigned to a particular year.

ASTRONOMY

Dr. Notestein

1-2. The aim of this course is to give the student a general knowledge of descriptive astronomy. The instruction is based upon the use of a text-book, supplemented by lectures and the use of a telescope. Some time is given to the study of the heavens to enable the student to become acquainted with the names and positions of the principal stars and constellations. Six credits.

BIBLICAL LITERATURE AND RELIGIOUS EDUCATION

Professor Brokenshire

12. **Old Testament History.** A study of the chief events and personages from the beginning of Sacred History to the time of Christ. The Biblical narratives themselves are studied as the source, supplemented by

lectures and assigned readings on the data furnished by the contemporary monuments of Babylon, Assyria, and Egypt. Geography is also studied, so far as it pertains to the history. Attention is paid to prophetic activity and literature, the poetry, and the "Wisdom Literature" of the Old Testament. Required of freshmen. Two credits.

21. **Gospel History.** The life of Christ is studied on the basis of the Gospels, attention being given to the historical trustworthiness of the Gospels, their relations, their characteristics, and the harmony of their narratives. The journeys and events of Christ's ministry are studied in the light of the geographical and historical conditions of His time. Required of sophomores. Two credits.

31. **Apostolic History.** The Acts of the Apostles and the epistolary literature of the New Testament are studied as primary sources. A discussion of the origin of the Christian church, the life and work of Paul, and special introduction to the Acts of the Apostles and the Epistles. Required of juniors. Two credits.

32. **The Bible as Literature.** Attention is directed to the literary beauties of the Bible, not only in the original texts as an Oriental classic, but especially in its translations as an all-pervasive, elevating force in English prose and poetry. Two credits.

33. **Church History.** A study of the career of the Christian church in its relation to the other elements of the life of the world, with attention to the development of Christian doctrine and the interior life of the church. 1918-1919. Two credits.

34. **History of Christian Missions.** A study of ancient, mediaeval, and modern missionary enterprise and biography, with special attention to the geography of modern missions and the elevating influence of Christianity as a force in individual and social life. 1918-1919. Two credits.

41. **Theism and Evidences of Christianity.** The apologetics of natural and revealed religion, the ultimate aim being to exhibit positively the reasonableness of Christianity as the supernatural and absolute religion, of which the Holy Scriptures are the divinely inspired record. 1918-1919. Three credits.

42. **Christian Doctrine.** A study of the fundamental doctrines of Holy Scripture, with emphasis on the essential agreement of the historic Christian church and all evangelical denominations. Required of seniors. Two credits.

43. **Comparative Religion.** Origin, characteristics, historical development and social significance of the world's great religions, wtih emphasis on Christianity as the absolute religion. 1919-1920. Three credits.

44. **Ethics.** A study of the history of Ethics, with a discussion of the principal types of ethical theory and the problems of their practical application in the light of the Christian revelation. 1919-1920. Three credits.

46. **Christian Workers' Training Course.** A study of the history, agencies, principles, and methods of religious education and practical Christian work. 1919-1920. Three credits.

BIOLOGY

DR. MACCURDY, PROFESSOR STEARNS

12. **General Biology.** This course is designed to give the student a knowledge of the general principles of biology developed from the study of typical forms of plants and animals, at the same time laying the foundation for more advanced work. Laboratory work is supplemented by lectures on the simpler and more fundamental laws of biology as illustrated in the

forms studied. Elective for all college students. Two lectures and two laboratory periods. Four credits.

NOTE.—For credit in general biology students must offer two semesters' work of four credit hours each, including both plant and animal biology.

21-22. **General Zoology.** The lectures and recitations cover the principal facts of animal structure, physiology, development and classification, and emphasis is laid on the methods of observation and interpretation of biological phenomena. They are illustrated by museum specimens and wall charts, in addition to the detailed laboratory study of typical representatives of the main branches of the animal kingdom, in which especial attention is given to invertebrates. Two lectures and two laboratory periods. Eight credits.

23. **General Botany.** Morphology and Physiology of Plants. This course includes a study of plant forms and their development, the development and relationship of the different members of the plant body, plant cells and cell structures, plant tissues, and their development and functions. Emphasis is laid on the interrelation of structure and function. Such texts as Strasburger, Coulter and Barnes, Vines, Stevens, Zimmerman's Micro-technique, and others are useful in this course. Two recitation and two laboratory periods. 1918-1919. Four credits.

24. **Field Zoology.** An introduction to the life relations of the more common forms, their habits, the identification and classification of important groups. Typical habitats and the forms inhabiting them are studied. The economic importance of certain groups such as insects and birds is of vital interest, and these claim particular attention. The class is limited in number and none should enter without permission from the instructor. Two lecture periods with field work. Two credits.

31. **Comparative Anatomy of the Vertebrates.** Lectures and recitations on the comparative anatomy and general physiology of vertebrates. The laboratory work is on vertebrate types, which are studied with special reference to human anatomy and physiology. The course is of value to those preparing to teach and of special interest to those preparing for the study of medicine, as well as of general interest to others. Such books as Wiederheim's Comparative Anatomy, Parker and Haswell's text-books of Zoology, vol. II, Jennings and Reighard's The Cat, are useful references. Prequisite, Biology 21-22. Two recitation and two laboratory periods. Four credits.

32. **Physiology and Histology.** This is supplementary to the work in the study of anatomy of the vertebrates, and is designed to include the general physiological processes, with emphasis on those of the most practical nature. A suitable text with reference work and laboratory practice makes up the course. The references include standard and recent texts on physiology, and in the laboratory standard methods of general histology are used. Prerequisite, Biology 31. Two recitations and two laboratory periods. Four credits.

33. **Embryology.** A study of the segmentation and development of the germ layers and early development of the principal structures of the vertebrate body. This is fundamental to a clear conception of many problems in biology. Two recitation and two laboratory periods. 1918-1919. Four credits.

41. **General Bacteriology.** This is an introductory course dealing with the biology of non-pathogenic bacteria and other micro-organisms. The importance of a knowledge of these forms is recognized in many branches of science and daily life. The common methods used in the study of bacteria are employed in the laboratory in the study of the bacteria of the house-

hold, foods, air and water. Emphasis is placed on the general physiological relations of bacteria, their distribution and relations to diseases. Buchanan's Household Bacteriology, or Frost and MacCampbell's General Bacteriology is the text, with a laboratory guide. Prerequisite, Biology 12 or 21-22. Two recitation and two laboratory periods. 1919-20. Four credits.

42. **Heredity and Eugenics.** Since the discovery of the Mendelian law great advances have been made in a knowledge of heredity. Both science and education have gained by this, in the application of a knowledge of these laws to biological, sociological, and educational problems. This course takes up the study of the method and laws of heredity, unit characters, pure lines, elimination of undesirable traits, and the development of new and desirable traits, and the application of the principles of heredity to economic and sociological problems. Prerequisite, Biology 12 or 21-22. Two lecture periods. 1919-1920. Two credits.

43. **Entomology.** This is an introductory course dealing with the many phases of insect life. A suitable text will cover class room considerations relative to the economic importance of certain injurious and beneficial species. Especial attention will be given those forms which transmit disease, for which control methods and elimination will be considered, and the foundations for advanced study in medical and sanitary entomology laid. Prerequisite, Biology 21-22. Two recitation and two laboratory periods. 1919-1920. Four credits.

The courses are planned to meet the needs of four groups of students:

I. Students wanting the humanistic and cultural value of a knowledge of biology; courses 12, 21-22, 42, 24, and 23.

II. Those who expect to teach; courses 12, 21-22, 31, 32, 24, 43, and 23.

III. Students preparing for the study of medicine; courses 12, 21-22, 31, 32, 33, and 24.

IV. Those looking toward work in science as a profession; courses as for II and III.

A major in biology should include twelve credit hours of work in addition to courses 12 and 23.

CHEMISTRY

Professor West

12. **General Inorganic Chemistry.** A beginning course which is open to all students of the college. Lectures based upon some good reference text as an outline. Two recitations and two laboratory periods. Four credits.

21. **Advanced Inorganic Chemistry.** A discussion of some of the more advanced problems and theories, together with suitable laboratory experiments. Prerequisite, course 12 or its equivalent. Two recitations and two laboratory periods. Four credits.

22. **Qualitative Analysis.** The separation and identification of the constituents of chemical compounds and mixtures by both the wet and dry methods. Prerequisite, courses 12 and 21. Two lectures and two laboratory periods. Four credits.

31. **Quantitative Analysis.** Quantitative methods, both gravimetric and volumetric, for finding the percentage composition of chemical compounds and mixtures such as commercial products and minerals. One lecture and three periods. Prerequisite, all of the courses above. Four credits.

33. **Organic Chemistry, Aliphatic Compounds.** Lectures based upon some good text as an outline together with laboratory work in making synthetic preparations such as ethers, chloroform, ethyl bromide,

methyl amine, acetal chloride, etc. Prerequisite, courses 21 and 22. Two recitations and two laboratory periods. Four credits.

34. **Organic Chemistry, Aromatic Compounds.** A continuation of course 33. Laboratory work in preparing such aromatic compounds as nitrobenzene, phenal bromide, sulphanilic acid, aniline dyes, etc. Two recitations and two laboratory periods. Four credits.

41. **Advanced Problems in Bio-Chemistry and Quantitative Determinations.** Credits according to the amount of work done. Prerequisite, all of the above courses. 1919-1920.

1-2. **Elementary Bio-Chemistry.** This course is planned for the women of the college, and will include the discussion of plant and animal processes and other topics, such as fuels, foods, clothing, ventilation, recipes, balanced diets, food adulterations, etc. During the present college year, the study of foods, their value and conservation, will receive the larger treatment. No previous knowledge of chemistry is required for this course, but women who desire to take more than one course in chemistry, should take alone or in connection with this course the other courses in their proper order. Prerequisite for freshmen, General Science. Two credits.

2L. **Elementary Bio-Chemistry.** This course may be taken in connection with course 2 by those who wish to do some experimental work with foods, plants, and animals from the standpoint of chemistry and also with foods, such as applying tests for identifying the various kinds of foods and articles of clothing, in experimenting with ink spots and other stains; the principle of dyes, balanced rations, etc. Will be helpful to those who are planning courses in biology, domestic science, or domestic art. One laboratory period. One credit.

Courses 21-22 and 33-34 are year courses and no credit is given unless the full year's work is completed.

NOTE.—Fluctuations in the price of chemicals have been such that increased fees may be necessary in 1918. This increase, if made, will cover costs only.

ECONOMICS AND SOCIAL SCIENCE

PROFESSOR MITCHELL

31-32. **Principles of Economics.** This course is designed to cover the more important portions of the general field of economics. The student is expected to assimilate the general principles of the subject and to be able to apply them to the discussion of practical questions. An excellent library of economics, containing the important treatises in English on the subject, is at hand, and students are required to use it freely. Three credits.

41. **Principles of Taxation.** The historical development of taxation; a study of the different kinds of taxes, as the general property tax, the single tax, inheritance tax, income tax; taxation of corporations; double taxation, together with recent reforms in taxation. 1918-1919. Prerequisite, course 31-32. Three credits.

42. **Money and Banking.** A discussion of the theory and history of money and banking with special reference to the United States. The gold standard; bimetalism; fiat money; our present currency; functions of a bank; first United States bank; second United States bank; our present national banking system; the federal reserve act and its operation; a comparison of foreign banking systems with our own, especially those of England, France, Germany, Scotland, and Canada. 1919-1920. Prerequisite, course 31-32. Three credits.

44. **Corporations.** A study of the history and the present legal and financial status of the business corporation. Pools, agreements, legal trusts, holding companies. Prerequisite, course 31-32. 1918-1919. Three credits.

46. **Principles of Sociology.** An advanced general course. It includes an analysis and classification of social facts; discussion of the principles of social theory and the process of socialization; study of social feeling, public opinion and organized action; an inquiry into the causes of emotional epidemics, panics, mob violence, revolutions; an explanation of the growth of public opinion on great questions; an attempt to show from history and current events that public action is governed by definite laws of social change. 1919-1920. Three credits.

ENGLISH

THE PRESIDENT, MISS ROBERTS, MISS FOOTE

11-12. **Rhetoric and Composition.** Study of the elements of effective writing. Practice in sentences and paragraphs, and in methods of exposition, description, and narration. Frequent short themes and occasional long compositions. A list of prescribed reading in modern prose authors. Required of all freshmen. Four credits.

21. **Composition.** Attention given to more extended forms of composition. Prerequisite, course 11-12. For sophomores. Two credits.

23. **Chaucer and Middle English.** The greater part of the semester is devoted to the study of Chaucer. Two credits.

24. **Shakespeare.** A careful study of eight of Shakespeare's plays. Three credits.

31. **Nineteenth Century Poetry.** A study of the chief poets, except Tennyson and Browning. 1918-1919. Three credits.

32. **English Fiction.** This course includes a consideration of the history and development of English prose fiction from the earliest times to the present day. Extensive reading in the principal authors under discussion is required. 1919-1920. Two credits.

33. **Advanced Composition.** In this course much attention will be given to individual needs and ambitions of students. Journalistic forms, magazine articles, theses for class room will be considered along with orations, lectures and various forms of platform addresses. Class and individual hours to be arranged. 1918-1919. Three credits.

34. **Browning.** 1919-20. Three credits.

41. **Literary Composition.** A study of leading forms of literature with practice in construction. 1918-1919. Two credits.

42. **American Literature.** A study of the style and literary value of a number of famous American poems, essays, novels, etc. 1918-1919. Two credits.

43. **Contemporary Drama.** A study of twenty or thirty dramas written during recent years. Those from foreign languages will be read in translation. 1919-20. Two credits.

44. **Tennyson.** 1919-20. Three credits.

ENGLISH SPEECH

1. **Public Speech.** This is a general utility course and is designed to deal with forms of public speech expected of those who mingle in public affairs. Two credits.

2. **The Oration.** A course in the study and writing of orations. This course is especially designed for students intending to take part in the various oratorical contests. Three credits.

3. **Argumentation.** Consideration is given to the principles of argument, evidence, proof, and brief-drawing. Three credits.

4. **Debating.** The greater part of the work in this course will consist of the practical discussion of problems of the day, and especially the question for inter-collegiate debate. Two credits.

(In 1918-1919 courses in English Speech will not be given. Special and individual attention will be given to debaters and orators by the instructors in English.)

FRENCH

Miss Foote, Dr. Bober

Course 11. Grammar, translations both into English and into French, conversation as in the first 24 lessons of Fraser & Squair's Method. Chief emphasis is laid on proper pronunciation and constant conversational exercises in class. Four credits.

Course 12. Lessons 25 to 39 of Fraser & Squair's Method, also the exercises on the irregular verbs and on the use of the subjunctive. Reading in class of Scribe's "Le verre d'eau." Conversational exercises in class continued. Prerequisite, course 11, or one entrance unit. Four credits.

Course 21. French grammar review (Fraser & Squair as reference), composition and conversation in class as in François' "Advanced French Prose Composition." French short stories of the nineteenth century by Berthon. Reading in class of Dumas' comedy, "Les demoiselles de Saint-Cyr," with conversational exercises based on the text. Prerequisite, courses 11-12, or two entrance units. Four credits.

Course 22. Specimens of French poetry of the nineteenth century with a thorough study of French verse. Berthon. French grammar review (Fraser & Squair as reference), composition and conversation as in François' "Advanced Prose Composition." Reading in private of Dumas' comedy "Les demoiselles de Saint-Cyr," and conversational exercises based on the text. Prerequisite, courses 11-12, and 21. Four credits.

Courses 23-24. Only for students who have had courses 11-12 (or two entrance units). Scientific French Reader (Herdler). This course may be substituted for the reading in class (in courses 21-22) of Dumas' comedy, "Les demoiselles de Saint-Cyr." Two credits.

Courses 31-32. Prerequisite courses 11-12, 21-22. MacMillan's "Second Course of French Composition and Material for Narration and Conversation." Chardinal's French Idioms for practice in class. The life and works of the seven greatest French authors of the nineteenth century. Fortier. To be read in private for examination, one work of each of the following authors: V. Hugo, A. de Vigny, Théoph Gautier. Six credits.

Courses 41-42. Prerequisite courses 11-32. French composition and narration as in parts II and III of MacMillan's Second Course of French Composition for advanced students. Chardinal's Idioms continued. History of French literature in the seventeenth and eighteenth centuries. Reading in private for examination extracts from the works of Corneille, Pascal, Racine, Molière, Boileau, La Fontaine, Voltaire, and J. J. Rousseau. Essays. Six credits.

GENERAL SCIENCE COURSE

DR. CORNELIUS, DR. MACCURDY, DR. NOTESTEIN,
PROF. WEST

11. This is a course of semi-popular lectures planned to serve as an introduction to the regular courses in science. Its purpose is to give the student a general view of the entire field of natural and physical science, its spirit, problems, methods and results; and in this way to prepare him for a fuller understanding and appreciation of those phases of scientific activity that may later become attractive to him. The lectures are planned to cover in a general way the various branches of science, and are illustrated, as far as possible, with lantern slides and with experiments demonstrating the fundamental principles of modern science. Required of all freshmen. Three credits.

GEOLOGY

DR. MACCURDY

1-2. This course is planned to give a general knowledge of geology by study of the geological changes of the present and by presenting the chief facts and theories. A fair knowledge of dynamic, structural, and historical geology is sought, attention being given to the geology of the North American continent and the geological history of Michigan. A good collection of minerals, rocks, and fossils is available for laboratory work. The course includes the use of a manual, lectures, selected readings, laboratory work, and field studies. 1918-1919. Six credits.

GERMAN

Dr. Bober

Course 11, for Beginners. Grammar, translations both into English and into German, conversation as in the first 23 lessons of the Comenian Method. Chief emphasis is laid on proper pronunciation and constant conversational exercises in class. Four credits.

Course 12. The exercises in Bernstorff's Grammar, pages 119 to 132, including exercises on the subjunctive. Reading in class of Gerstäcker's "Germelshausen" in the exercises. Selected poems by H. Heine. Prerequisite, course 11, or one entrance unit. Four credits.

Course 21. German grammar review with exercises as in Tuscott-Smith's German Composition. Short stories of the nineteenth century with conversational exercises. Baumbach's "Im Zwielicht" I. Reading in class of Moser's comedy, "Der Bibliothekar," with exercises based on the text. Prerequisite, courses 11-12, or two entrance units. Four credits.

Course 22. Specimens of German ballads from Uhland, Bürger, Gerok, Goethe, Schiller. German grammar review and composition and narration as in Tuscott-Smith's German Composition, pages 79 to 116. Reading in private of Moser's "Bibliothekar" with exercises based on the text for class work. Prerequisite, courses 11-12, and 21. Four credits.

Courses 23-24. Only for students who have had courses 11-12, or two entrance units. Scientific German Reader (Dippold). This course may be substituted for the reading in class (in courses 21-22) of Moser's comedy, "Der Bibliothekar." Two credits.

Courses 31-32. German composition and conversation and material for narration as in Pope's German Composition. Taker and Roget's German Idioms for practice in class. History of German literature from the beginning to Goethe's death. To be read in private for examination one work of each of the following authors: Schiller, Goethe, Wildenbruch. Prerequisite, courses 11-12, 21-22. Six credits.

Courses 41-42. German composition and narration as in part III of Pope's Composition. Taker and Roget's German Idioms continued. History of German literature since Goethe's death up to the present time. The problem and Märchen Drama with specimens of Sudermann, Fulda, and Gerh. Hauptmann. One of the epic poems by Jul. Wolff. Essays. Prerequisite, courses 11 to 32. Six credits.

43-44. **Faust, Part I.** The Faust Books and Marlow's Faust. Prerequisite, courses 11 to 32. 1919-1920. Four credits.

GREEK

Dr. Ewing

11. **Elementary Greek.** White's First Greek Book. Five credits.

12. **Xenophon's Anabasis.** Prose composition. Five credits.

21. **Colson's Reader.** Selections from Herodotus; Greek literature; prose composition. Prerequisite, courses 11-12. Four credits.

22. **Homer.** Book I of the Iliad translated and the forms and metrical peculiarities carefully studied; rapid reading of the most interesting portions of the text with frequent practice in sight translation; topical study of the Homeric age; Greek literature. Prerequisite, course 21. Four credits.

31. **Lyric Poetry.** A study of the various forms of the lyric as a connecting link between the epic and the drama. Prerequisite, courses 21-22. Four credits.

32. **Dramatic Poetry.** The reading of selected plays; lectures on the origin and development of the drama; Greek literature. Prerequisite, course 31. Four credits.

33. **Herodotus, Thucydides, Xenophon.** Notes on Greek constitutional development, illustrated by copious readings. Prerequisite, courses 21-22. Four credits.

34. **Lysias, Demosthenes.** A study of the history and influence of Greek oratory. Prerequisite, course 33. Courses 33-34 alternate with courses 31-32. Four credits.

41. **Plato; Xenophon.** Selections from Plato's Apology, Crito, and Phaedo, and the Memorabilia of Xenophon; outlines of Greek philosophy. Three credits.

42. **Theocritus; Lucian.** Studies in the later literature. Three credits.

1. **New Testament Greek.** A careful study of Hellenistic Greek based upon the Gospel of Luke. This course alternates with course 3. 1918-1919. Three credits.

2. **Greek Literature in English.** A reading of Greek masterpieces in translation supplemented by lectures on the development of literary form among the Greeks. This course alternates with course 4. Three credits.

3. **The Greek in English.** A brief course in the elements of the language, primarily for the benefit of scientific students in acquiring a better knowledge of the terminology of science. Three credits.

4. **Greek Life and Art.** A study of the civilization of the Greeks and its influence upon later peoples and times, by means of lectures and supplementary readings, and illustrated by the use of the lantern. A knowledge of Greek is not necessary for this course. 1918-1919. Three credits.

The major in Greek must include, in addition to courses 21 and 22, twelve hours to be selected from courses 31 to 42, and 1.

HISTORY AND POLITICAL SCIENCE

Professor Mitchell

11. **European History.** From the fall of the Roman empire on the west to the Peace of Westphalia, 1648. Three credits.

12. **European History.** From the Peace of Westphalia to the present time. Three credits.

21-22. **The History of Europe since 1870.** Prerequisite, courses 11 and 12. 1918-1919. Six credits.

23-24. **History of England.** Political and constitutional. 1919-1920. Six credits.

25. **History of the United States.** Colonial and Revolutionary periods. 1492-1789. Prerequisite, courses 11 and 12. 1919-1920. Three credits.

26. **History of the United States.** National Development and the Slavery Question, 1789-1861. 1919-1920. Three credits.

31. **History of the United States.** The Civil War and Reconstruction, 1861-1876. Prerequisite, courses 25 and 26. 1918-1919. Three credits.

32. **American Government.** An analysis of the nature, structure, and working of the Federal Government and a comparison with foreign systems. 1918-1919. Three credits.

33. **The State.** A discussion of the origin, forms, and ends of the state, together with a history of the formation of the constitutions of England, France, Germany, and the United States. Prerequisite, courses 11 and 12. 1918-1919. Three credits.

41-42. **European Governments.** A study of the governments of England, France, Germany, and Italy. 1918-1919. Six credits.

1. **Greek History.** From the earliest times to the death of Alexander. 1919-1920. Three credits.

2. **Roman History.** From the earliest times to the barbarian invasions. 1919-1920. Three credits.

KINDERGARTEN TRAINING

MISS ROBINSON AND MISS CONYNE

Freshman Year

11-12. **Kindergarten Theory 1.** This course covers a study of the theory of (a) Plays and games, (b) Child study, (c) Story work, (d) Hygiene. Six credits.

13. **Kindergarten Technics 1.** The Frobelian gifts are studied with special reference to their technic, the aim being to develop skill and ability in their use as material. Two hours. One credit.

14. **Kindergarten Technics 2.** The second semester is given to a study of traditional street games with special emphasis on their simplification and adaptability to use in the kindergarten and in the playground. One hour. One-half a credit.

15-16. **Kindergarten Arts 1.** This work includes the traditional Froebelian occupations: sewing, weaving, paper folding, and clay modeling; also a study of the significance of industrial arts in racial development. Two hours. One credit.

17-18. **Ethics.** Every-day Ethics by Cabot is used as a basis for the discussion of questions of ethics as related to every-day living. Two credits.

Sophomore Year

21-22. **Kindergarten Theory 2.** This course involves a study of the organization of the kindergarten program in relation to the selection and unification of child impulses, interests, and educative stimuli. Students will submit plans of work for class discussion and criticism. Each student will also write a year's outline including the use of the various instrumentalities of the kindergarten such as songs, games, stories, arts, excursions, etc. Two credits.

23-24. **Kindergarten Technics 3.** During the first semester songs, games, rhythms, and dramatization are studied from the point of view of musical construction and suitability for children. The second semester is devoted to a comparative study of the educational methods and materials of Froebel, Dewey, and Montessori. One credit.

25-26. **Kindergarten Arts 2.** This course involves a consideration of all the kindergarten arts and outside materials with practical applications. One credit.

27-28. **Froebelian Philosophy.** This course is based on a study of Froebel's Mother Play and is supplemented by such other educational philosophers as Dewey, Butler, and Horne. Four credits.

29-30. **Children's Literature.** This work covers the essential aspects of children's literature, such as Mother Goose, folk and fairy tales, myths, and Bible stories. It aims to acquaint the student with the fundamental principles of choice, preparation and classification of stories. Practice in story-telling is an important part of the class method. Four credits.

Teaching. The work in teaching consists of experience in the college kindergarten supplemented by teachers' meetings and personal criticisms. Six credits.

In addition to the above courses the student must complete: Two semesters of Bible, two of science, one of which shall be general science; two of English, two of psychology, and two of history of education, in addition to the required work in gymnasium and one semester of solfeggio.

This work is generally covered in two years, at the end of which time the student is recommended to the state for the granting of a life certificate. It is offered on the basis of the usual entrance requirements and may be entered upon in the freshman year. It is desirable that the groups be small and the faculty reserves the privilege of accepting or rejecting applicants on basis of health and demonstrated adaptability for the work.

LATIN

Dr. Ewing, Assistant Professor Cook

11-12. **Beginner's Course.** The elements of the language; D'Ooge's First Latin Book. Cæsar; prose composition. Ten credits.

This course is the equivalent of the two units of foreign language required for entrance to college or to the law or medical school.

13-14. **Intermediate Course.** Cicero; orations and letters. Vergil; Æneid. Ten credits.

This course is offered to those who have had two or three years of Latin and wish to prepare themselves to enter course 15 in one year.

15. **Cicero, De Senectute.** Inflections and word analysis; reading of selections from Ennius, Lucretius, Vergil, Sallust; Roman literature of the Republic. Four credits.

16. **Livy, Book XXI.** Review of syntax; a play of Terence for reading at sight; topography of Rome. Four credits.

21. **Horace.** Odes and selections from the Epodes; study of the style and qualities of Horace; social and political conditions of the Augustan age; literature of the Augustan age. Three credits.

22. **Pliny's Letters.** Selections from Martial, Tacitus, Suetonius; Silver Age literature. Three credits.

31. **Roman Drama.** Plautus, Terence, Seneca. Three credits.

32. **Roman Philosophy.** Lucretius, Cicero, Seneca. Three credits.

41. **Roman Satire.** Horace, Persius, Juvenal. Three credits.

42. **Roman Elegy.** Catullus, Tibullus, Propertius. Three credits.

1. **Roman Literature in English.** An outline course of readings in the best translations, offered primarily to non-classical students. Three credits.

3. **Roman Life and Art.** Private life of the Romans; lectures and readings, illustrated by the lantern. This course does not require a knowledge of Latin. Alternates with course 1. Three credits.

2. **Teacher's Course.** A careful study of portions of Cæsar; review of elementary Latin grammar, pronunciation, etc.; methods of the work of the first and second years of Latin study. Two credits.

4. **Teacher's Course.** A careful review of one oration of Cicero and one book of the Æneid, with special attention to forms and syntax, and versification; methods of teaching third and fourth year Latin. This course alternates with course 2. Two credits.

The major in Latin must include, in addition to courses 15-16, twelve hours to be selected from courses 21 to 46.

LIBRARY METHODS

Miss Cook

31. A course in classification, cataloging, reference work and bibliography. Elective for juniors and seniors. One credit.

MATHEMATICS

Dr. Notestein

11. **Algebra and Trigonometry.** Algebra: the theory of logarithms and other selected portions. Plane trigonometry; a study of the functions of angles; trigonometric formulae, their derivation and transformation, with their application to the solution of problems. Three credits.

12. **Analytical Geometry.** The bilinear and the polar systems of co-ordinates; properties of the straight line and conic sections; general equation of the second degree and higher curves. Three credits.

21-22. **College Algebra.** This course includes progressions, binomial theorem, undetermined co-efficients, series and higher equations. Four credits.

23-24. **Spherical Trigonometry and Solid Analytical Geometry.** Napier's rules of circular parts; the solution of problems and the application of spherical trigonometry to astronomy. System of co-ordinates in solid analytical geometry; lines, planes and surfaces. Prerequisite, 11 and 12. Four credits.

31. **Differential Calculus.** A study of the rules and formulæ for differentiation, expansions of functions, indeterminate forms, application of calculus to curves, maxima and minima. Five credits.

32. **Integral Calculus.** This course includes a study of the methods of integration, the application of

integral calculus to curves, areas, volume, moment of inertia, pressure, etc. Five credits.

33-34. **Surveying.** A combined theoretical and practical course covering such topics as adjustments of instruments; land surveying, including running of lines, reestablishing of corners, determination of heights; simple triangulation; measurement of areas; leveling; topographic surveying; laying out curves and computation of earthwork. Prerequisite, course 11. 1919-1920. Four credits.

41-42. **The Theory of Equations.** This course includes a study of the general properties of the equation; transformations; differentiation of algebraic functions; cubic and biquadratic equations; location of roots; the solution of numerical equations and the theory of determinants. Six credits.

43-44. **Teacher's Training Course.** This is an elective course open to juniors and seniors who are planning to teach mathematics in secondary schools, and to all other students who may need such a course. The work of the first semester will include a review of the fundamental principles of high school mathematics supplemented by advanced work in these branches. The second semester will embrace a discussion of standard text-books; methods of teaching and selected topics from the History of Mathematics. 1918-1919. Six credits.

45-46. **Advanced Calculus.** A continuation of courses 5a and 5b, with numerous practical applications of the differential and integral calculus. Six credits.

47. **Analytical Mechanics.** This course treats of the fundamental principles of mechanics, the composition and resolution of forces, center of mass, friction, virtual velocity, machines, attraction, rectilinear and curvilinear motion. Three credits.

48. **Analytical Mechanics.** This course deals with the laws of motion, forces, vis viva, impact, work and energy, moment of inertia, rotary motion, motion of a system of rigid bodies in space. Three credits.

The major in mathematics must include, in addition to courses 31-32, six hours selected from courses 41 to 48.

MECHANICAL DRAWING

DR. CORNELIUS

21. **Mechanical Drawing.** This course consists in practice in the use of drawing instruments, lettering, making of plates from copy and aims to acquaint the student with the methods and technique of mechanical drawing. It is planned especially to meet the needs of engineering students, but is open to any who for any reason desire a working knowledge of mechanical drawing. Two credits.

22. **Advanced Mechanical Drawing.** The subject matter of this course is varied to meet the needs of the individual student. For engineers the work is devoted to the sketching of machine parts, working drawings, tracings, and blue prints. For those students who intend to pursue general science, architecture, manual training or domestic science, practice is given in working drawings, house planning, etc. Prerequisite, course 21. Two credits.

MUSIC

MR. HORTON AND MISS ROBERTS

1-2. **Solfeggio and Ear Training.** Rudiments of music, major and minor scales, elements of notation, sight singing, interval and chord dictation. Four credits.

3-4. **Harmony.** Harmonizing melodies in soprano and bass. Principal and secondary triads of the major scale and their inversions, principal triads of the minor scale and their inversions, dispersed harmony. Written and keyboard work. Prerequisite, course 1 or its equivalent. Four credits.

5-6. **History of Music.** A study of the development of the various schools and forms of composition, evolution of musical instruments, biographies of great musicians. Two credits.

7-8. **Theory.** Summary of knowledge required of any professional musician taking up acoustics. Musical terminology, rhythm and accent, notation, figuration, metre, hymn construction, figure treatment, song forms, sonata forms, symphony, rondo concerto, rondo, overture, prelude, vocal forms, analysis of counterpoint and fugue. Prerequisites, courses 1 to 6, or their equivalents. Four credits.

9-10. **Diction for Singers.** Elements of good diction in English, French, Italian, and German. Two credits.

Pianoforte, Organ, and Voice Courses. Private lessons. Special tuition.

The first five courses are open to regular college students as elective or major subjects. Candidates for an A. B. degree desiring to major in music must present the work in all above theoretical courses and in addition an advanced course of two hours a week in harmony, which will be given for such students. They must also present the practical work of two private lessons per week in piano, organ, or voice throughout the course.

Candidates for a special certificate in music must present besides regular college entrance requirements the following prescribed courses: Theoretical music courses 1 to 10 inclusive, major practical subjects, four years, two lessons per week.

Tuition in all theoretical subjects in classes of five or more is five dollars per semester. Regular college students can apply their regular college tuition to these theoretical courses.

A chorus of mixed voices is conducted throughout the year, giving several performances of oratorio and mixed programs. All students of the College are eligible for membership.

PHILOSOPHY AND EDUCATION

Dr. Randels

Philosophy

31-32. **History of Philosophy.** The study of what the great thinkers of the world have thought and written about the problems of life. Three credits.

33. **Logic.** A study of principles of inductive and deductive reasoning. 1919-1920. Three credits.

34. **Aesthetics.** A consideration of the principles which underlie the æsthetic appreciation of architecture and painting. Three credits.

41. **Readings in Modern Philosophy.** This course will serve as an introduction to philosophy, since some of the fundamental problems of philosophy will be especially noted. There will be a firsthand study of the writings of Descartes, Locke, Berkeley, and Hume. 1918-1919. Three credits.

42. **Readings in Philosophy.** A first-hand study of the writings of other philosophers than those studied in connection with course 41. 1918-1919. Three credits.

Psychology

31. **General Psychology.** The purpose of this course is to interest the student in the study of himself. The text-book work is supplemented by simple experiments designed to give the student first-hand information and to promote independent work. Open to sophomores in Kindergarten Training. Three credits.

32. **General and Educational Psychology.** Continuation of course 31 with especial attention to those parts of psychology which have the widest application to education. Three credits.

Education

31-32. **History of Education.** An outline of the development of educational theory and practice in the light of economic, social, political, philosophical, and religious conditions at different ages. Four credits.

41. **Principles of Education.** Principles contributed by biology, psychology, sociology, and philosophy which appear to be the foundations of modern education. Two credits.

42. **General Principles of Method.** Selection and arrangement of subject-matter, the doctrine of interest, the formal steps, and the preparation of lesson plans, classroom management. Two credits.

Graduates from any of the college groups of study who complete not less than eleven hours of the above courses in psychology and education in addition to Psychology 1 will be recommended by the faculty to the State Board of Education for a teacher's certificate which will enable them to teach in the public schools of Michigan without examination.

The required philosophy should consist of two courses selected from 31 to 42.

A major in philosophy should include courses 31-32, and fourteen hours' work selected from courses 33 to 42 and course 41 in the department of religious education.

PHYSICS

DR. CORNELIUS

12. **General Physics.** This course is intended to acquaint the student with the elementary facts, the methods and the general principles underlying physical science. It is designed to meet the needs of those students who wish a knowledge of physics for its cultural value as well as those who intend to enter a medical school in the future. Lectures and recitations. Three credits.

A second course in general physics may be taken later. Both courses may be accompanied by course 23-24.

21-22. **General Engineering Physics.** This course is designed for those students who wish a more extensive and rigid course than that offered in course 12, and for those who expect to pursue engineering courses or advanced work in exact science in this or other departments. Lectures and recitations. Eight credits.

Registration in trigonometry is advised. This course should be accompanied by course 23-24.

23-24. **Laboratory Physics.** This course consists of quantitative measurements, the use of instruments of precision, the verification of the laws of physics, the determination of the constants and coefficients, and the manipulation of apparatus. Two laboratory periods. Four credits.

In addition to the foregoing general courses, the work of the department is planned to offer advanced courses in order that a student may complete a major in physics, thus fitting himself to teach the subject, or equipping himself with a general training for a scientific career, such as that of commercial physicist or engineer. Some of the advanced courses will be given each semester and the number will be varied to meet the needs of the students. Courses 21-22 and 23-24 are prerequisites to all of these courses.

31. **Light.** Advanced course. Geometrical and physical optics are treated in detail. Under the former head some of the most important optical instruments are studied, such as the camera, the microscope, telescope, etc. Under the latter head the theory of light is developed. The course is intended to be a practical and useful study of optics, and aims to give a careful, scientific explanation of many optical phenomena, such as spectroscopy, diffraction, dispersion, interference and polarization. It is advisable to supplement this course with course 35. Three credits.

32. **Electricity and Magnetism.** This is an advanced course dealing with the fundamental facts of the subject, magnetic fields, electrolysis, thermoelectricity, potential, current, resistance, induction, capacity, practical applications in electric machinery, the electro-magnetic theory of light, discharge of electricity through gases, X-rays, and wireless waves. It is advisable to supplement this course with course 35. Three credits.

34. **Heat.** Advanced course. This course is planned to give a comprehensive view of the science of heat. It should be of particular value to those who intend to teach science or to those who expect to pursue mechanical engineering. The study includes the consideration of mercurial and air thermometers, calorimetry, heat equivalents, coefficients of expansion,

vapor pressures, conductivity, hygrometry, pyrometry, liquid air, and weather forecasting. It is advisable to supplement this course with course 35. Three credits.

35. **Advanced Laboratory.** One, two or three periods per week, depending upon the needs of the student. This course offers individual work on topics chosen from courses 31, 32, 34, which will best meet the needs of the student, and should be taken in conjunction with those courses.

41. **Elements of Modern Astro-Physics.** This course includes a study of optical instruments, and the application of physics to the determination of astronomical facts, such as the temperature of the sun, the characteristics of its spots, the magnitude and similarity of its magnetic field to that of the earth, its period of rotation, and the history and composition of the solar and sidereal systems. Prerequisite, descriptive astronomy. Three credits.

42. **Training Course for Physics Teachers.** The course includes a resumé of the history of physics and a study of the best methods of presenting a secondary course in physics in the light of the important part physics is playing in present-day life. Ample opportunity is given the student for a critical study of subject matter, examination and choice of text-books, and selection of apparatus to meet the needs of a secondary school. Two credits.

A major in physics must include 12 hours selected from courses 31 to 42.

PHYSICAL TRAINING FOR WOMEN

The graded course of regular class work, which is offered to and required of every woman student, covers two years of training, for which classes meet three times a week. The floor work consists of drills in Swedish gymnastics, dumb-bells, Indian clubs, wands, the Delsarte system of movements for grace and rhythm, games, and aesthetic and national dances. A certain amount of outdoor work is included in the regular course. Long walks, skating, tennis, and other outdoor sports in season. The regular tournament deciding the college tennis championship is held in May. In connection with the floor and outdoor work, a study of hygiene and "first aid" is required of everyone.

An examination is made when the pupil arrives, and exercises are prescribed by the instructor to correct any irregularity or weakness in development noted at the time.

All students taking the work are expected to wear the uniform, which is black serge bloomers, white cotton blouse, and Swedish gymnasium shoes.

PHYSICAL TRAINING FOR MEN

MR. HELMER

Much attention is given to the health and physical welfare of the men of the College. In order to help toward this end the work in physical training has been put on a credit basis, two hours' work being required of each student before graduation.

During the spring and fall months, out-door work is emphasized through competition for positions on the various teams, namely, football, track, tennis, and cross-country running; while during the winter months, from November 1st to April 1st, regular gymnasium practice is required of all freshmen and sophomores.

The ultimate aim of athletic instruction in Alma College is not the creation of a few stars, but the development of the individual to a greater physical efficiency.

At the beginning of each semester the student will be subjected to a careful physical examination and measurements. Exercises in the gymnasium will then be prescribed which are appropriate for his needs.

11-12. **Physical Training I.** Freshman year. Two hours. One credit.

21-22. **Physical Training II.** Sophomore year. Two hours. One credit.

31 or 32. **Physical Training Theory; Coaching.** Two credits.

1-2. **Physical Training III.** This course consists in training in competitive athletics, namely, in football, basketball, baseball, track, and tennis.

SPANISH

Course 11 for Beginners. Grammar, translation, both into English and into Spanish, together with conversational exercises as in the first 21 lessons of Olmsted and Gordon's Spanish Grammar and Reader. Four Credits.

Course 12. Espinosa's "Advanced Spanish Composition and Conversation" with Olmsted and Gordon's Spanish Grammar as reference. Selected poems. Extracts of the works of modern Spanish writers. Prerequisite, course 11.

General Information

SUGGESTIONS TO APPLICANTS FOR ADMISSION

The requirements for admission to the college are presented on pages 13 and 14. For an understanding of the nature and scope of the courses of study of the College, the applicant should study the description of courses presented on pages 19 to 51. The index at the end of this Catalogue will direct him to the page on which any given subject is treated.

New students should arrive the Monday before the opening of a semester, so as to conclude all necessary arrangements. Young women should go directly to Wright Hall and consult the Dean of Women. Young men should go at once to the President's office in the main college building.

ADMISSION AND DISMISSION

Applicants for admission to any department of the institution will first report to the president for registration. They must present testimonials of good character, and those who are from other institutions of learning must furnish certificates of standing and of honorable dismissal.

All students admitted to the institution will be on probation for the first three months. If during this period a longer stay is deemed inadvisable by the faculty in the case of any student, he may be so informed privately and permitted to withdraw. Any student may at any time be privately dismissed if the faculty deem his further connection with the school undesirable. All students entering the College accept these conditions of matriculation.

Any student against whom there are no unpaid bills nor charges of misconduct is entitled to an honorable dismissal.

STUDIES AND EXAMINATIONS

No student may take up a study out of the order prescribed in this Catalog nor drop a study once entered upon, without the consent of the faculty.

No student is allowed to take less than twelve hours of work, nor may he take more than sixteen hours of work without special permission. An applicant asking permission to take more than sixteen hours of work must have maintained an average of B in the work of the previous semester.

Students whose class work in the current semester averages below B-, or who have more than two conditions, are not allowed to represent the College as delegates to conventions or as members of debating, oratorical, or athletic teams.

Examinations are held at the close of each semester and at intervals during the semester at the discretion of the instructor. The results of examinations are reported to parents at the end of each semester, and recorded for future reference. In case of freshmen, a report of class standing is sent also at Thanksgiving recess.

Students who do not earn a minimum of twelve honor-points in any semester shall be put on probation for the following semester with a schedule of not more than twelve hours. If this action does not result in satisfactory work, the student concerned shall be dropped from the College at the end of the semester.

No grades below B- shall count toward majors.

Conditions must be removed (a) by examination within one semester from the time when they were imposed; or, (b) where courses continue, by making a grade of B in the work of the next semester: if not so removed, they become failures.

CREDITS AND HONORS

By the college marking plan, excellence in scholarship is recognized through a system of honor-points corresponding to the class standings received.

Class standings are indicated by letters. A, B, B-, C. C-, D are passing grades. But honor-points are earned by the first three letters only. For a grade of A in any subject, three times as many honor-points will be given as there are hours in the course; for a grade B, twice as many honor-points; and for a grade B-, the same number of honor-points. One hundred honor-points are required for graduation. For graduation cum laude, 200 points are required; for graduation magna cum laude, 250 points are required; and for graduation summa cum laude, 300 points are required.

DEGREES AND CERTIFICATES

The degree of Bachelor of Arts (A. B.) is confered upon all graduates of the college, except that the degree of Bachelor of Science (B. S.) may be conferred upon graduates who have had at least one-half of their college work in mathematics and science, if they prefer this degree.

The Bachelor's degree will not be conferred upon a student unless he has been in residence for at least one year. As a rule, a student must be in residence during the year immediately preceding his graduation.

Students who complete the prescribed courses in kindergarten training or in music, will receive certificates.

RULES FOR CLASSIFYING COLLEGE STUDENTS IN THE CATALOG

1. For sophomore standing a minimum credit of 40 hours is required; for junior standing, 70 hours; for senior standing, 100 hours.

2. No student shall be classified as a sophomore who has any entrance conditions; nor as a junior, who has any freshman conditions; nor as a senior, who has any sopohomore conditions.

DIVISIONS OF THE COLLEGE YEAR

For purposes of administration and instruction, the year is divided into semesters of eighteen weeks each, the first opening about the middle of September, the second about the 1st of February. The usual holiday and spring vacations divide the year into three terms of about twelve weeks each.

Students absent from recitations immediately preceding or following a vacation are assessed one dollar for each absence, up to a limit of three in either case.

For the dates of the opening and the closing of terms and semesters, see Calendar at the beginning of this Catalog.

BUILDINGS AND EQUIPMENT

There are at present six academic buildings on the college campus; the Recitation building, Wright Hall, the library, Hood museum, the gymnasium, and Pioneer Hall. There is also a central heating plant.

Recitation Building

The Recitation building contains the college offices, the chapel, twenty-two recitation rooms, laboratories, and department offices, and halls for the Zeta Sigma and Phi Phi Alpha literary societies.

Wright Hall

Wright Hall, the home provided for the young women through the munificence of the late Ammi W. Wright, in architectural appearance and in adaptation to its purposes is not excelled by any building of its kind in the country. It is built of paving brick trimmed with stone, and is four stories in height above the basement, which is constructed of field stone. The interior finish is very pleasing and the arrangements for the comfort of the occupants are complete. Great care is being taken to surround this noble edifice with a fit setting of greensward, shrubbery, and trees, that it may typify to successive generations of college students the ideal college home.

Unless excused by the faculty, all young women are expected to live in Wright Hall, which is under the immediate supervision of the Dean of Women. She is directly responsible for the government of the young women and will assign them their rooms and have the general supervision of their personal habits and activities.

Parents should not make arrangements for a daughter to live outside Wright Hall without first consulting the Dean of Women or the President.

Parents and guardians are invited to communicate freely with the Dean touching the interests of their daughters and wards, thus enabling her to understand and meet the peculiar needs of each student.

Girls under sixteen years of age will not be received, except by special arrangement.

At the time of application for admission, a deposit of $5 must be made by each student in order to reserve a room. This deposit will be retained in the Secretary's office until the close of the college year as a contingent fee to pay for possible breakage or injury to furniture or equipment of Wright Hall. This sum will be refunded if the student decides to withdraw, provided notice is sent a month before the beginning of the college year. Make checks payable to Alma College. A deposit of 50 cents is required of each occupant for room key.

Wright Hall is open to receive young women on Monday, September 16, the noon meal being the first served. Students are requested not to arrive earlier unless by special arrangement with the Dean.

The rooms are single or arranged in suites and are furnished with single enameled couch bed and springs, felt mattress and pad, pillow, oak dresser, study table, bookcase, chairs, and window shades. Each student must furnish her own towels, two pairs of sheets and pillow-slips, blankets or comforts, floor coverings, and such conveniences and adornments as may be desired. Lavatories in bath rooms.

Because of the danger of fire, the trustees of the College prohibit the use of chafing dishes, electric cooking appliances, electric irons, etc., except in rooms especially provided in the basement. Parents are asked to co-operate in enforcing this regulation.

Pioneer Hall

Pioneer Hall, one of the two original college buildings, is the dormitory for young men. The building is heated by steam and lighted by electricity. Baths, together with ample toilet conveniences, are provided in the basement. The building has been entirely remodeled at a cost of nearly $9,000. It is as good a dormitory for men as is to be found in the state.

Students living in the building are loosely organized for government. They make their own regulations and enforce them under the advice of the president and a faculty committee. This form of government has been satisfactory.

This building accommodates between fifty and sixty young men. Those unable to secure rooms in it, will be directed by the College to satisfactory rooms in private homes.

Rooms in Pioneer Hall are provided with bed, springs, mattress, table, chairs, bookrack, and wardrobe. Students must furnish for themselves towels, sheets, pillow-slips, and blankets. They also pay for laundering these articles. Rooms are $1.25 a week for each occupant. Upon engaging a room each student deposits $5.00, which is returned if for any reason the room is not desired and due notice is given before September 1. This deposit is made to meet any damages that may be assessed against the student, either such as may be traced to him or such as may be assessed pro rata upon the occupants of the Hall for damage done therein. Any unexpended balance of this deposit will be returned to the student within one week after the close of the year. For his room key each student deposits fifty cents, which is refunded when the key is returned. Young men desiring to engage rooms should address the college. Checks should be made payable to Alma College.

The Library

The library building contains the stack room, the large and well-lighted reading room, and a separate history room. It is built of red brick trimmed with stone, is handsomely finished in hardwood, and is in all respects well adapted to its particular use.

In the library building, besides the general library, are the following special collections:

1. The Lucy Plum Mitchell Library of History and Political Economy.
2. The Sarah H. Lancashire Library of Fiction.
3. The Arthur Hill Library of Lincolniana.

4. The Joseph W. Ewing Memorial Library of Pedagogy and Education.

5. The Mary C. Gelston Library of Latin Language and Literature.

6. The David M. Cooper Memorial Library of Ethics and Theology.

7. The Pollasky Law Library.

These collections contain 27,180 volumes and a valuable collection of pamphlets. There has been an increase of about 600 volumes during the year.

The collection embraces a great variety of works in classical, English, and foreign literature, in biography and history, in the various sciences and arts, and is exceptionally well furnished with encyclopedias and complete sets of American and European reviews. The books are classified and arranged according to the Dewey system, and an index of authors, titles, and subjects places the contents of the library at the command of all who are in search of information upon any subject.

Immediately adjoining the library stacks is the reading room, supplied with cases of reference books and the leading journals and periodicals of this country and England.

The library of Lincolniana, the gift of the late Hon. Arthur Hill, of Saginaw, occupies a special case in the history room.

The library is open daily from eight to twelve and from one to six except that on Saturday mornings it is closed until nine o'clock. The evening hours are from seven to nine o'clock on Tuesday and Thursday evenings.

Students may examine and use the books and periodicals during the library hours, and may draw them from the library and retain them for a period of one week, at the end of which they should either be returned or renewed. Other persons are allowed to use the library and reading room freely and are permitted to draw books on an equal footing with the students. Transient visitors in town are charged twenty-five cents a month for the use of the library books.

As a part of its work the library offers assistance without charge to high school instructors and students in the preparation of debates and orations. The library will lend books to ministers who are reading along special lines, the only charge being the payment of postage. Suggestions relative to helpful books will be made to those who apply. For this service address Librarian, Alma College, Alma, Mich.

During the past year the library has received gifts of books and magazines from the following: Rev. Jay Clizbe, D. D.; C. J. Chambers, the State of Michigan, U. S. Gov't, Mrs. J. H. Lancashire, Rev. J. Frank Jackson, Prof. Albert P. Cook, Dr. J. T. Ewing, Library of Congress, Robert McAllister, H. J. Fuller, Rev. V. K. Beshgetoor, Lyon and Healy, Rev. L. Bissell, F. von Frantzius, U. H. Broughton, G. F. Moore, J. Boyd, Royal Ontario Nickel Commission, Chas. Scribner's Sons, Ralph M. Dean, Smith Institute, Alden Sampson, Rev. Albert Torbet, Supt. A. F. Schultz, Marion Morris. Other friends have contributed money for the binding of magazines.

Francis A. Hood Museum

The Hood Museum of Natural History, the gift of Mrs. Francis A. Hood, of Saginaw, and of Mr. Frank Hood, of Marinette, Wis., was finished and dedicated in June, 1900. It is two stories and a basement in height, with slate roof, and is one of the finest structures on the campus. It has two large exhibition halls lighted to give the largest possible space for the display of the collections. In the basement are storerooms and laboratories for the preparation of specimens, making the building one of the most complete and convenient museum buildings in the state.

The cases in use in the museum are built of oak, constructed on plans furnished by the U. S. National Museum, and are provided with adjustable shelves, dust and insect proof doors, etc. At present the geological and mineral collections are the only ones systematically installed. Additional cases for the Winchell collections of fossils and for the Albino deer, have been provided through the generosity of Mrs. Francis A. Hood, of Saginaw, and Mr. Frank Hood, of Marinette, Wis.

The collections in the museum are:

1. The Stillwell collection of Michigan birds and animals.
2. The W. S. Crawford collection of birds.
3. The Shroyer-Wilcox collection of palaeozoic fossils.
4. The Alexander Winchell collection of rocks, minerals, and fossils.
5. The general geological and mineral collection.
6. The William S. Cooper collection of shells, minerals, and butterflies.

The Stillwell collection was made by a former resident of Alma, most of the specimens being collected in the vicinity of the College and representing some species now extinct or very rare for this locality. It numbers nearly 300 specimens, and was obtained by purchase.

The W. S. Crawford collection was made by the donor in various parts of the United States, and has a variety of rare specimens of birds from Florida, Arizona, and Michigan.

The Shroyer-Wilcox collection is a systematic collection of palaeozoic fossils, those of the Cincinnati group of rocks being especially well represented. It is valuable as a supplement to the other collections of fossils in the museum. It was acquired by purchase.

The Alexander Winchell collection is the largest and most valuable acquisition of the museum. The collection is that gathered by Professor Winchell during his long and active life as a geologist and teacher, and contains over 6,000 specimens, many of which were collected in Michigan by Dr. Winchell and described by him. These type specimens have an especial value. The collection was presented by friends.

The general biological collection contains representative vertebrate and invertebrate animal material, most of it yet to be arranged for exhibition, which has been collected during the history of the college. It will occupy the upper hall of the museum. It is estimated to contain 2,000 specimens.

The general geological and mineral collection is installed in the east end of the lower hall of the museum and numbers 2,500 specimens. It has been obtained largely by small gifts from numerous friends.

The Gymnasium

The gymnasium building contains the studio of the instructor in vocal music, the kindergarten rooms, the gymnasium, and an office. The rooms occupied by the kindergarten department are large and well-lighted, and in every respect are well arranged for both school and recitation purposes. The gymnasium occupies the entire upper floor of the edifice, and with its equipment of apparatus, the gift of Mr. John W. S. Pierson, of Stanton, Mich., and Mr. Charles H. Davis, of Saginaw, Mich., furnishes adequate facilities for athletic training. Here during the winter months daily classes in physical culture offer the opportunity for that systematic training of the body which is so necessary to the health of the student. This work is required of freshmen and sophomores, and is open to all other students.

The Laboratories

The equipment of the physics laboratory is ample for experimentation in mechanics, hydrostatics, light, heat, sound, and electricity. The laboratory is supplied with gas, water, tables, and other appliances which add materially to its facilities for scientific work.

The biological laboratory is furnished with all necessary apparatus for thorough and practical work. The equipment consists of a sufficient number of compound and simple microscopes, microtomes, paraffin baths, air and water nets, collecting boxes, etc., for individual field and laboratory work.

The chemical laboratories occupy the entire basement of the east wing of the recitation hall.

The general laboratory is fitted up with tables, apparatus and chemicals, and will accommodate twenty-four students. Each desk is supplied with gas and water, re-agents, and necessary apparatus for hastening tedious processes.

The quantitative laboratory is equipped with three fine weighing balances, blast lamps, and combustion and crucible furnaces, and is provided with a large ventilating hood.

The organic laboratory has a good ventilating hood, balance, hot air and water ovens, Kieldahl's apparatus for the determination of nitrogen, fat extractors, a polariscope, and such other apparatus as is required for its work.

The chemical department also possesses a fine spectroscope and a sufficient amount of miscellaneous apparatus for thorough practical work.

A reference library consisting of some of the latest chemical books is kept in the laboratory for the use of students.

A fine projecting and reflecting lantern is included in the equipment of the laboratories.

Davis Athletic Field

The generosity of Mr. Charles H. Davis, of Saginaw, provided the college in 1902 with a modern athletic field. About five acres of the campus not far from the gymnasium was perfectly graded, drained, surrounded with a high board fence, and equipped with football field, baseball diamond, quarter-mile cinder track, bleachers, and a grandstand. Water mains bring running water to the field. Outside the field are several tennis courts. In 1912 Mr. Davis added an imposing entrance gate, which renders the field one of the most attractive as well as one of the most adequate among the college fields of the Middle West.

EXPENSES

Tuition and General College Fees

Tuition, per semester	$30.00
Matriculation Fee	5.00
Graduation Fee	5.00

Special Fees

Biology, per semester	$3.00
Chemistry, per semester	5.00
Chemistry, 2	2.50
Physics, per semester	5.00
Late Registration	2.50
Student Activities, per semester	3.75

Student tuition and fees are paid at the beginning of each semester, before the completion of registration.

The student activities fee is collected through the College office and expended under the direction of a joint committee of faculty and students. It covers admission to athletic games and all public speaking and debating contests, subscription to the College paper, etc.

The rate per hour for less than eight and more than sixteen hours' work is $3.75.

Graduates from the kindergarten or music departments are charged $1.00 for the certificate of graduation.

Tuition in Music

Voice:

One thirty-minute lesson a week, per semester	$25.00
Two thirty-minute lessons a week, per semester	45.00
Three thirty-minute lessons a week, per semester	60.00

Pianoforte and Pipe Organ:

One thirty-minute lesson a week, per semester	18.00
Two thirty-minute lessons a week, per semester	30.00
Three thirty-minute lessons a week, per semester	40.00
All theoretical subjects, per semester	8.00

(Due from regular and special music students only)

Use of Piano:

One hour a day, per semester	$4.00
Two hours a day, per semester	6.00
Three hours a day, per semester	8.00

Music Tuition Regulations

All tuition must be paid in advance.

Lessons missed by students will not be made up except in cases of illness or unavoidable absence from school. In such case notice should be given in advance.

If a student leaves school during a semester, or discontinues a music course without permission from the Dean, no refund of tuition is allowed. In case of protracted illness, one-half of the tuition for the unexpired portion of the semester will be refunded. The request for this refund must be accompanied by a physician's certificate stating the inability of the student to continue his work.

Board

Young women living in Wright hall are required to board in the building. Young men desiring to get their meals there are permitted to do so. In the dining room at least half a dozen members of the faculty take their meals.

Board is furnished in Wright Hall at cost. During 1917-18 the weekly cost has been $4.25.

Some young men board in private homes or restaurants. Parents are urged, however, to have their sons board in the College dining-room.

Payments

Parents are urged to pay room rent, board and tuition by the semester (eighteen weeks) in advance, sending checks directly to the College, made payable to Alma College. Bills for all unpaid accounts will be sent monthy to parents.

Rebates

The matriculation fee is never refunded in case of a student's withdrawal. Tuition fees are returned in amounts varying with the weeks of attendance in college. In case a student withdraws without the express permission of the Dean or the President, or in case of a student's dishonorable dismissal, the faculty cannot assure the return of any part of the fees paid.

Summary of Expenses

The following table exhibits three scales of expenditure for the college year, exclusive of furniture, clothing, traveling expenses, personal items and fees for laboratory science work.

	Low	Moderate	Liberal
Tuition	$ 60.00	$ 60.00	$ 60.00
Student activities	7.50	7.50	7.50
Room rent (Wright Hall) .	36.00	54.00	63.00
Room rent (Pioneer Hall) .	45.00	45.00	45.00
Board	153.00	153.00	153.00
Books and stationery.....	10.00	15.00	25.00
Laundry	10.00	20.00	30.00

RELIGIOUS ORGANIZATIONS

Throughout the history of the College, Alma students have maintained a Young Men's and a Young Women's Christian Association. The members of these organizations strive to meet new students upon their arrival at Alma and assist them in registering, in finding rooms, and in becoming comfortably located. At the opening of each semester they hold social affairs for the purpose of promoting acquaintance. A union religious meeting is held on Wednesday evenings and separate meetings on Sundays. These meetings aim to develop true manliness and womanliness and to make clear that real religion is a thing of works as well as of faith. The organizations maintain voluntary Bible classes and send out leaders to organize and conduct mission Sunday schools. A band of student volunteers for mission work is regularly maintained. The associations unite with the faculty in conducting special meetings during the college Week of Prayer. Christian manhood and womanhood is the aim of these associations. Consequently, they appeal to practically every student that comes to Alma.

ORATORY AND DEBATES

Alma College is a member of the Michigan Inter-Collegiate Oratorical Association, which conducts two contests, one for men and one for women, on the first Friday in March of each year. The College is also a member of the Alma-Hope-Olivet League and meets each of these colleges in debate annually. Preliminary trials to decide upon the contestants in the different competitions are scheduled during the year as follows:

Freshmen Oratorical Contest (men)	First Friday in November
Freshmen Oratorical Contest (women)	Second Friday in November
Men's Oratorical Contest	First Friday in December
Women's Oratorical Contest	Second Friday in December
Prohibition Contest	Third Friday in February

The management of these local contests is under the charge of the local Oratorical Association and Debating League.

LITERARY SOCIETIES

Two literary societies, Zeta Sigma and Phi Phi Alpha, are conducted by the young men of the College, and three, Alpha Theta, Philomathean and Froebel Club, by the young women. The aim of these societies is the development of a correct literary taste and of the power of precise and ready expression.

COLLEGE PUBLICATIONS

The *Alma College Bulletin* is published monthly by the College. This publication aims to keep the alumni, schoolmen, high school students, and friends in touch with the work, the progress, the needs, and the prospects of the College. It is sent without charge to all who may apply, either for single issues or for a place on the permanent mailing list. The College Catalog makes one of the issues.

The *Almanian* is a student publication and is issued weekly during the college year. It is conducted by a board of editors who aim to make it a faithful reflector of college life in all its phases, as well as a consistent supporter of the interests of the institution from the standpoint of the student body.

The *Maroon and Cream* is the college annual published in May by the Junior class. It epitomizes the student activities of the year.

THE CLASSICAL CLUB

The Classical Club is conducted by the students of the ancient languages under the supervision of the instructors in Greek and Latin. The aim of the Club is the promotion of an interest in classical literature and archaeology. Meetings are usually held once a month during the college year.

THE SCIENCE CLUB

The purpose of the Science Club is to acquaint its members with the perspective of modern science and to promote interest and enthusiasm in the field of scientific research. Meetings are held periodically at which students and faculty members from all the departments of mathematical and physical science participate in the program. The current scientific periodicals are studied and all phases of science are considered. Students taking part in the programs find an excellent opportunity for training in the effective presentation of scientific topics which may prove of practical value in future professional work. The discussions contribute to a broad understanding of the intimate interdependence of mathematics and astronomy, geology, physics, chemistry, and biology.

LECTURES AND CONCERTS

The citizens of Alma maintain a course of lectures and entertainments called the Lyceum Course. Prominent speakers and notable musicians visit Alma from time to time under the auspices of this association, students being able to avail themselves of these advantages at small expenditure.

The College entertains guests and speakers from time to time. Some of the addresses delivered by these guests are delivered in the chapel and some gatherings are held in Wright Hall, the commodious dormitory for women. Since the date of the last catalog of Alma College the following have been heard by the students of the College:

Dr. Charles F. Wishart, Pastor Second Presbyterian Church, Chicago, Illinois; Dr. George B. Stewart, President Auburn Theological Seminary, Auburn, New York; Rev. Dr. J. Ambrose Dunkel, Pastor Warren Avenue Presbyterian Church, Saginaw, Michigan; Rev. Dr. R. M. Crissman, Pastor Presbyterian Church, Port Huron, Michigan; Mr. A. B. Sheldon, of Alma College; Professor F. E. West, of Alma College; Professor Charles D. Brokenshire, of Alma College; Mr. Henry King, Acting Ensign United States Naval Reserve; Chaplain John Mulvey, United States Army; Mr. Arnold Robinson, Aviation; Lieut. J. A. B. MacAuley, United States Army; Lieutenant Lester Von Thurn, United States Army; Mr. Frederick Van Fleet, Editor, *Michigan State Journal;* Mr. Donald Smith, Aviation; Mrs. Perry, Michigan Pioneer and Historical Society, Lansing; Dr. George D. Sutton, Mayo Hospital, Rochester, Minnesota; Bishop T. S. Henderson, M. E. Church, Chattanooga, Tennessee; Rev. Preston Bradley, Peoples' Church, Chicago; Rev. Dr. N. B. Bradley, Congregational Church, Saginaw; Rev. Dr. Raymond M. Huston, Trumbull Avenue Presbyterian Church, Detroit; Dr. Charles Moore, Chairman National Commission Fine Arts, Detroit; Rev. J. M. Barkley, D. D., Detroit; Rev. Lewis S. Brooke, D. D., Presbyterian Church, Howell, Michigan; The Hon. Chase S. Osborn, Ex-Governor, Sault Ste. Marie, Michigan; Secretary Heffley, State Y. M. C. A., Michigan; Rev. William F. Wier, D.D., National Secretary, Presbyterian Brotherhood, Wooster, Ohio; Dr. David W. Cornelius, of Alma College; Rev. Floyd Douglas, Pastor Congregational Church, Ann Arbor, Michigan; Professor Wilbur R. Humphreys, University of Michigan, Ann Arbor; Professor James E. Mitchell, of Alma College; Dr. Abby V. Holmes, Chicago, Illinois; Miss Sara Snell, Student Volunteer Secretary; Bishop Charles D. Williams, Episcopal Church, Detroit, Michigan; Rev. Dr. Horace Cady Wilson, Lansing, Michigan; Dr. A. R. Parkin, Organizing Director of the Rhodes Scholarship Fund, London, England; Dean J. R. Effinger, University of Michigan, Ann Arbor, Michigan.

AID FOR STUDENTS

Students of limited means expecting to complete a regular course at Alma, can usually obtain reasonable aid upon application to the President, who will bring their cases to the consideration of the Committee on Aid to Students. This committee administers an all too small Loan Fund. Students aided by this fund are expected ultimately to return the amount which they have received unless they enter upon a life which is so purely missionary as to render such return a burden. No interest is asked, although often beneficiaries prefer to pay interest.

Generous-minded friends, even though they can give but little, can scarcely do better with their gifts than to add them to this Student Loan Fund.

Students preparing for the ministry of the Presbyterian Church can secure as much as $100 a year from the Board of Education, if they need help, and if they are recommended by their home presbytery.

The children of home and foreign missionaries are granted scholarships yielding $30 per year when they are regular students of the College.

The College has 45 permanent scholarships, most of which yield $30 a year, besides a varying number of annual scholarships supported by Alma alumni organizations, by individuals, and by churches. These scholarships are administered in varying ways by the faculty committee. A few go to persons designated by the donors. A few are granted on a basis of excellent class work. Most, however, are awarded to students of promise who have real need of help. Scholarships are usually granted for a year. They may be withdrawn, however, at the end of the first semester if recipients fail to do satisfactory work. Holders of scholarships may be asked to render some form of service to the College.

Scholarships thus administered become a help to the College as well as to the student. The demand for scholarships is regularly greater than the supply. Friends, Sunday schools, churches, women's clubs, or other organizations interested in helping young people, are invited to correspond with the President with reference to assuming a scholarship or part of a scholarship.

A number of students can usually find employment in the homes, stores, hotels, or boarding houses of Alma. The College, too, is at times able to give work to some young men and young women. Young men having a hundred dollars with which to begin a freshman year can usually complete a College course without interruption, provided they have health, energy, and a willingness to do faithful work. Young women should have at least fifty dollars more.

PERMANENT SCHOLARSHIPS

Permanent scholarships, most of them representing an endowment of $500 and yielding $30 per year in tuition, have been made available by generous friends of youth and of the College. The scholarships thus held are as follows:

NAME	DONOR
Thomas Merrill	Mr. Thomas Merrill, Saginaw
Memorial Presbyterian Church	Rev. D. M. Cooper, Detroit
Laurense	Mr. Leonard Laurense, Detroit
Martha P. Seeley	Mr. John F. Seeley, Caro
Harry G. Kelton	Mr. and Mrs. J. M. Kelton, Bay City
Lucy Plum Mitchell	Prof. Jas. E. Mitchell, Alma
Louis Penoyer Memorial	Mrs. Emeline Penoyer, Saginaw
Edith M. Davis	Mrs. Edith M. Davis, Saginaw
Alba A. Lull	Mr. Alba A. Lull, Pontiac
Martha B. Heartt	Mr. William A. Heartt, Caro
William A. Heartt (four)	Mr. William A. Heartt, Caro
First Presbyterian Church	First Presby. Church, Saginaw
David M. Ladd, Memorial	U. P. and C. Church, Milford
Rachael W. Pierson	Mr. John W. S. Pierson, Stanton
Marion H. Plum	Mr. J. H. Plum, Indianapolis, Ind.
Helen Anderson Tanner	Mr. M. W. Tanner, Saginaw
Watson B. Robinson	Mr. James W. Robinson, Alma
Theodore D. Marsh	T. D. Marsh, D. D., Grand Rapids
Harriet Barton Wright, Memorial,	Mrs. J. H. Lancashire, New York
Margaret N. Thorburn	Mr. Jas. T. Thorburn, Detroit
John Cameron	Trumbull Ave. Presby. Church, Detroit
J. Ambrose Wight	First Presbyterian Church, Bay City
Katherine M. Inglis	Mr. Thomas Merrill, Saginaw
Brownell (eight)	Mrs. Mary E. D. Brownell Estate, Detroit
William E. Rohlfs	Many friends
Grace Church, Saginaw	Mr. Thomas Merrill, Saginaw
Francis King	Mr. Francis King, Alma
M. S. Smith	Mrs. Helen Smith Deming, Detroit

Hazel B. Garland	Mr. Arthur Garland, Howell
Nathan B. Bradley	E. E. and F. W. Bradley, Bay City
Horace B. Silliman	Dr. Horace B. Silliman, Cohoes, N. Y.
John J. Cleaveland	First Presbyterian Church, Detroit
Westminster	Westminster Presbyterian Church, Bay City
Gould (two)	Mrs. Helen Gould, Saginaw

UNIVERSITY FELLOWSHIP

The University of Michigan presents annually to a graduate of Alma a fellowship carrying an honorarium of $300. The recipient gives to the University some return in service, but has most of his time free to pursue advanced studies. The fellow is chosen by the Alma faculty. A member of the senior class or a graduate of not over four years' standing is eligible. Mr. Ray Beshgetoor, '17, represented the College in 1917-1918.

HONOR SCHOLARSHIPS

Thi Silliman and Brownell Scholarships, each amounting to $50 in tuition and fees, are awarded annually to a young man and a young woman in the Junior class of evangelical belief and exemplary conduct who have the highest scholarship records as determined by honor points in the studies of the Freshman and Sophomore years. These scholarships during 1917-1918 were awarded to Howard Burtch and Mildred McConkey.

PRIZES

Greek Prize. The income of the Justin Marsh fund is awarded every second year to the student receiving the highest grade in New Testament Greek. In 1917 this prize was divided between Myrddyn Davies and Lewis Sarvis.

Oratorical Prizes. Rev. W. H. Mason, pastor of the Presbyterian Church, Alma, offers a gold medal annually to the young man winning first place in an oratorical contest conducted under these conditions:

1. There must be at least six contestants.
2. The contest must take place before Christmas.
3. The winner may not contest a second time. He may, however, challenge another winner to determine which of them shall represent the College at the state contest.

The donor offers a gold medal under similar conditions for a women's contest.

ALUMNI ASSOCIATION

Officers and Directors

President....................James E. Mitchell, '93
Secretary-Treasurer..........Stanley A. Graves, '10
Vice-President................Mrs. H. H. Soule, '03
Ella Bittner, '12 Rev. J. Earl Webber, '05
Kendall P. Brooks, '97 Henry H. Soule, '03

The Association was formed by the class of '91. It has had a vigorous growth and has come to be regarded as an important and influential college organization. All graduates of the College are members of the Association.

In June, 1914, the constitution of the Association was changed by making the governing body consist of a board of seven directors, and by substituting annual gifts for the former dues.

The annual meeting of the Association is held on Tuesday of Commencement week, which has been designated as Alumni Day.

Alumni Club of Chicago

President..................Rev. George A. Hill, '00
Vice-President...................Rev. David Martin
Secretary-Treasurer.............C. A. Monteith, '13

The annual meeting, February, 1919.

Alumni Club of Detroit

President	Stanley A. Graves, '10
Vice-President	Adelbert H. Lindley, '11
Secretary-Treasurer	Anna L. Sebring, '12

The annual meeting, March, 1919.
Secretary's address, Highland Park.

Alumni Club of New York

President	Watson B. Robinson, '01
Vice-President	
Secretary-Treasurer	E. Blake McDonald

The annual meeting, the first Friday in May.
Secretary's address, 1780 W. Ninth St., Brooklyn, N. Y.

Alumnae Association of the Kindergarten Training Department

President	Mrs. Kate Coddington, '03, Alma
Secretary-Treasurer	Miss Edna Swigart, '01, Alma

DEGREES CONFERRED

At the Commencement of the College held June 13, 1917, the following degrees were conferred:

Honorary Degrees

The Degree of Doctor of Divinity Upon

Rev. Charles F. Blanchard, Alma, '93	Marshall
Rev. John Wirt Dunning, Alma, '04	Kalamazoo

Degrees upon Examination, June 13, 1917

The Degree of Bachelor of Arts Upon

Morton Guy Ault	Petersburg
Ernest E. Bacon	Midland
Martha Adelaide Ballou	Stanton
Efford Beverly	Breckenridge

Anna Wave Coleman	Hastings
Amaretta DeWitt, *cum laude*	Spring Lake
Lester C. Doerr	Traverse City
Violet Elliott	Elkton
Isadore Friedman	Tawas City
Clarence Halteman	St. Louis
Edward Johnston	Yale
Vernon Lansing	Bay City
J. A. Bannerman MacAuley	Calumet
Pauline Markham	Charlevoix
Lydia Resseguie	Alma
Wilhelmine Ritter, *cum laude*	New York City
Chester Roy Robinson	Plainwell
George Carl Titus	Alma
Elfleda Udelle	Alma
Edna Ward	Charlevoix

The Degree of Bachelor of Arts, as of the Class of 1897 Upon

Fred R. Perry	Detroit

The Degree of Bachelor of Science Upon

Ray V. Beshgetoor	Alma
Fred John Porter	Alma

CERTIFICATES GRANTED

A State Teacher's Certificate to

Adelaide Ballou
Efford Beverly
Clarence Halteman
Edward Johnston
Pauline Markham
Fred Porter
Lydia Resseguie
Chester Robinson
George Carl Titus
Elfleda Udelle
Edna Ward

A State Kindergarten Certificate to

Louise Beck
Bess Brown
Marion Cooper
Mary DeRousie
Phyllis Goschenhofer
Josephine Hall
Emma Keller
Helen O'Neill
Josephine Reiser
Nina Resseguie
Bertha Swanson
Hazel Tuck
Katherine Waninger
Edna Ward
Alice Yerkes

CLASS HONORS

Valedictorian....................Wilhelmine Ritter
Salutatorian......................Amaretta DeWitt

The Register of Students

SENIORS

Baker, Helen.................... Thessalon, Ontario, Canada
Mathematics and Physics

Batie, Olive.................... Bad Axe
History and Economics

Bittner, Frank.................... Alma
Mathematics and Chemistry

Brown, Bess.................... Farwell
Kindergarten and French

Coleman, Earl.................... Hastings
History and German

Cooper, Marion.................... Lansing
Kindergarten and German

Creaser, Elizabeth.................... Alma
Chemistry and Physics

Doane, Marie.................... Alma
Latin and English

Ellis, Lula.................... Alma
History and English

Ellsworth, Frank.................... Kalamazoo
Education and Economics

Guerra, Octavio.................... Alma
English and Theology

Hooper, Ruth.................... Alma
Latin and German

Kennedy, Charles.................... Chicago, Ill.
Chemistry and Biology

Lampman, Harold.................... Clare
Chemistry and Mathematics

Layer, Edith.................... Unionville
English and German

Melvin, Linton.................... DeTour
History and Chemistry

Rather, Laura.................... Alma
French and German

Richards, Verne.................... Detroit
History and English

Smith, Lucille..................................Wheeler
Mathematics and History
Street, Carl..................................Wheeler
Mathematics and Physics

JUNIORS

Ardis, Emberson..................................McBain
Biology and German
Burtch, Howard..................................Howell
History and Economics
Doty, Ellen..................................Breckenridge
Latin and German
Foote, James Arthur..................................Grand Ledge
Chemistry and Biology
Fulcher, William..................................St. Louis
Latin and Greek
Gaffney, Russell..................................Alma
History and Economics
Gates, Erma..................................Bay City
Latin and English
Gillard, Grace..................................Alpena
English and Chemistry
Herbert, George..................................Detroit
Mathematics and French
Jackson, Thomas..................................Chicago, Ill.
German and Biology
Koepfgen, Beatrice..................................Cass City
English and History
McConkey, Mildred..................................Coldwater
Latin and English
Miller, Leo..................................Hudson
Mathematics and Chemistry
Murphy, William..................................Alma
Chemistry and German
Nunn, Iva..................................St. Louis
English and History
Peters, Gertrude..................................Tecumseh
Latin and English
Rose, Rowena..................................Traverse City
Latin and English

Seeley, Clinton	Caro	**German and Economics**
Smith, Malcolm	Alma	**Mathematics and Economics**
Spooner, Carlton	Ithaca	**Mathematics and German**
Thurau, Frederick	Bay City	**German and Economics**
Wales, Emma	Detroit	**English and Pedagogy**
Waninger, Katherine	Detroit	**Kindergarten and History**
Warner, Stanley	Howell	**History and English**
Wight, Vern	St. Louis	**Mathematics and Chemistry**

SOPHOMORES

Anderson, John Melvin	Boyne City
Ardis, Ruth Eva	McBain
Baribeau, Claude Russell	Grand Ledge
Bay, Franklin Ernest	Calumet
Benner, Henry	Adrian
Boyne, Edwin	Marlette
Bretz, Delora Irene	Napoleon, Ohio
Brooke, Bernice	Ithaca
Burnett, Margaret May	Engadine
Carey, Eloise	Harbor Springs
Crawford, Marguerite Isabelle	Sault Ste. Marie
Creaser, Charles Wm.	Alma
Currie, Eleanor Spence	Detroit
Dean, Ralph M.	Vermontville
Duffey, Grace	Alma
Dyer, Marguerite E.	Sault Ste. Marie
Eggleston, Olive L.	Parma
Finlayson, John L.	Calumet
Follette, Allen	Coldwater
Gill, Cleo B.	Alma
Grimm, Helen Gertrude	Alma
Hall, Margaret L.	Bad Axe
Harris, Victor J.	St. Louis
Hatch, Jean	Cleveland, Ohio

Hatt, Gladys	Detroit
Hawes, Charlotte E.	Coldwater
Hicks, W. J. B.	St. Louis
Holt, Fred	Sault Ste. Marie
Jackson, Jean M.	Crosswell
Jennings, Mabel Ellen	Chicago, Ill.
Krueger, Floyd H.	Chicago, Ill.
Laman, Minnie Ellen	McBain
Lott, John R.	Ithaca
Lyon, Hartzell	Ada
Marsh, Rolland	Harbor Springs
Mashin, Blanche R.	Chicago, Ill.
McFadyen, Elizabeth	Howell
McKay, Ola Arlene	Brown City
McKinney, E. LaReine	Flint
Millard, Harold W	Battle Creek
Milligan, Nellie	Breckenridge
Mitchell, Ruth	Charlevoix
Parsons, Helen N.	Charlevoix
Payn, McKinley	Howell
Perrigo, Clair A	St. Louis
Ramsdell, Gene	Manistee
Reid, Elizabeth	Chicago, Ill.
Simenton, George	Marlette
Stein, Rae	Harbor Springs
Stone, Lulu V.	Clare
Tatroe, Leone A.	Monroe
VanDuzen, Dale	Breckenridge
Van Lopik, Katherine	Grand Haven
Vogt, Bertha	Coldwater
Wenger, Carroll E.	Saginaw
Wheaton, Zoa V.	Alma

FRESHMEN

Amon, Thelma V.	Alanson
Anderson, Fay E.	Breckenridge
Anneke, Helen L.	Bay City
Ardis, Margaret R.	McBain
Bacon, Louise A.	St. Louis
Bailey, Harold	Breckenridge
Bain, Martha F.	Traverse City
Barnhart, Lyle D.	Berrien Springs
Beshgetoor, Willard G.	Alma
Blick, Virginia	Detroit
Buchanan, Earle M.	Tyre

Burgess, Helen L.	Sidney
Calkins, Neil H.	Sebewaing
Chadwick, Robert L.	Vassar
Chase, Lauretta D.	Traverse City
Crawford, Marguerite A.	Breckenridge
Davis, Harold A.	Alma
Doty, Grace Edith	Breckenridge
Downey, Emmet Arthur	Coldwater
Forrester, Gertrude Marion	Deckerville
Franklin, Douglas S.	Youngstown, Ohio
Friedrich, Esther M.	Coldwater
Frederick, Victor P.	Niles
Frisbee, Dorr W.	Howell
Gies, Gretchen M.	Reese
Graham, Ivan F.	Croswell
Hamilton, Charlotte	Ithaca
Hamon, Archie S.	Kennett
Handley, Howard H.	Alma
Harrison, Birdie	Menden City
Harrison, Gordon	Sault Ste. Marie
Henkel, Frances	Niles
Hilsinger, Harold	St. Louis
Hopkins, Clarence Warren	Breckenridge
Hopkins, James	Alma
Howe, James G.	Alma
Karras, James	St. Louis
Kelley, Audrey	Sandusky
Kern, Roland	Reese
Kirk, A. Dale	Fairgrove
Kneeland, Helen	St. Louis
Knighton, Edward	Olyphant, Pa.
Knowles, Oswald	Monroe
Law, Doris	Cadillac
Layer, Ethel	Unionville
Marzolf, C. S.	Alma
McMann, Beatrice	Harbor Beach
Medler, Raymond	Alma
Milks, Malcolm	Burt
Mills, Claud	Ithaca
Mitchell, Dorothy	Harrisville
Moon, Clayton	Smyrna
Moore, Howard	Alma
Moore, Margaret	Alma
Narrance, Harold	Alma
Newton, William A.	Traverse City
Packard, Beulah	Merrill
Pelton, Frank	Bentley

Pryce, Edward A.	Tustin
Purdy, Florence	Gagetown
Purdy, Martha	Greenville
Reed, Dorothy	Battle Creek
Reid, Marion L.	Chicago, Ill.
Richards, Wm. F.	McGregor
Sabin, Gladys	Breckenridge
Sandorf, Besse M.	Bay City
Schall, Herbert D.	Caro
Schmidt, Eva Ruth	Saginaw
Schultz, Robert F.	Alma
Sharrar, Lee M.	Alma
Sherburn, Virgil	Coldwater
Smalldon, Rozella	Sandusky
Sturtridge, Burton F.	Croswell
Swanson, Claudia M.	Grand Marais
Swift, Norma S.	Harbor Springs
Taylor, George R.	Caro
Tenny, Laura E.	St. Louis
Thompson, Florence	Williamston
Voelker, Lona E.	Ionia
Walker, Cleo E.	St. Louis
Willett, Harry R.	Alma
Wiltse, Cecil C.	Marlette

SPECIAL STUDENTS

Cash, Paul	Alma
Lamper, Orville	Alma
Ritter, Johanna E.	New York City
Robinson, Persis Sherman	Traverse City

VOICE STUDENTS

Bradner, Gladys	Lodi, Cal.
Carey, Eloise	Harbor Springs
Cash, Justin	Alma
DeWitt, Florence	Wheeler
Dutt, Ruth	Alma
Eggleston, Olive	Parma
Forrester, Marion	Deckerville
Gill, Cleo	Alma
Hawes, Charlotte	Coldwater
Kruger, Helen	St. Louis
Lampman, Harold	Clare
Loynes, Katherine	St. Louis

Lyon, Hartzell	Alma
Mashin, Blanche	Chicago, Ill.
Maxwell, Mrs	Alma
McCallum, Mrs	St. Louis
McConkey, Mildred	Coldwater
McMann, Beatrice	Harbor Beach
McKay, Arlene	Brown City
McKinney, LaReine	Flint
McPherson, Marion	Howell
Moore, Margaret	Alma
Naldreth, Jessie	Alma
Palmer, Ruth	Alma
Reed, Mabel	Alma
Ritter, Wilhelmine	Alma
Sandorf, Besse M	Bay City
Seeley, Clinton	Caro
Schmidt, Eva	Saginaw
Smith, Malcolm	Alma
Sharrar, Lee	Alma
Ward, Hulda	Alma
Yost, Edward	St. Louis

PIANO STUDENTS

Amon, Thelma	Alanson
Ardis, Margaret	McBain
Berryman, Bernice	Alma
Blick, Virginia	Detroit
Bradner, Gladys	Lodi, Cal.
Burnett, Margaret	Engadine
Carey, Eloise	Harbor Springs
Chase, Loretta	Traverse City
Crawford, Marguerite	Breckenridge
Davis, Harold	Alma
DeWitt, Florence	Wheeler
Doty, Edith	Breckenridge
Doty, Ellen	Breckenridge
Dutt, Ruth	Alma
Falor, Grace	Alma
Fulcher, William	St. Louis
Gies, Gretchen	Reese
Henson, Mabel	Ashley
Hooper, Edith	Alma
Hopkins, James	Alma
Horton, Rose	Alma
Huff, Helen	Alma

Jackson, Jean	Croswell
Lamb, Woodburn	Alma
Law, Doris	Cadillac
Lentz, Mae	Alma
McMann, Beatrice	Harbor Beach
Manning, Bernadette	Alma
Milligan, Nellie	Breckenridge
Mitchell, Dorothy	Harrisville
Palmer, Ethel	North Star
Palmer, Ruth	Alma
Purdy, Florence	Gagetown
Purdy, Martha	Greenville
Reed, Dorothy	Battle Creek
Reed, Mabel	Alma
Reid, Elizabeth	Chicago, Ill.
Ringle, Olive	North Star
Ritter, Wilhelmine	Alma
Robinson, Persis Sherman	Traverse City
Sabin, Gladys	Breckenridge
Smalldon, Rozella	Sandusky
Stein, Rachael	Harbor Springs
Stevens, Oneida	Breckenridge
Street, Mary B	Alma
Swanson, Claudia	Grand Marais
Swift, Norma	Harbor Springs
Taylor, Major	Alma
Udelle, Ota	Alma
VanLopik, Katherine	Grand Haven
Vaughan, Ethel	Frankfort
Winslow, Hope	Alma

SUMMARY

The College	187
Music Dep't	77
	264
Names Duplicated in Music and College Dep'ts	45
	219

The List of Alumni

Class of 1891

Bernice Hunting, A. M., Missionary..................Syria
Temporary address........541 Lexington Ave., New York
Rev. Alfred Pratt, Bible Training School,.....Wooster, Ohio
Bertha May Trask, Teacher, Room 112, Merrill Bldg., Saginaw

Class of 1892

Ralph C. Ely, Attorney State Food Administration,
....Santa Fe, N. Mex.
Francis W. Eply, Prof. of Physics and Chemistry,
.....................975B Clayton St., San Francisco, Cal.
Mrs. J. C. Hubbard (Katherine Slater),
..............................502 E. Ann St., Ann Arbor
Mrs. H. P. Streng (Mary Cook)..512 S. Park St., Kalamazoo

Class of 1893

Rev. Charles F. Blanchard, Pastor Presb. Church, Marshall
Matie C. Hill...................806 Grand Traverse St., Flint
Mary Olive Hunting......600 N. Buxton St., Indianola, Iowa
James E. Mitchell, A. M., Prof. History and Political
Science, Alma College..............................Alma
*Mrs. James E. Mitchell (Lucy Plum).
*Herrick J. Ransom.
Mrs. F. D. Sherman (Bessie McLean),
......................111 Fisher Ave., White Plains, N. Y.
Mrs. Alfred F. Waldo (Josephine Hodges),
........................Scottswood Road, Riverside, Ill.

Class of 1894

Mrs. L. V. Cram (Esther Marsh)...101 Rowena St., Detroit
Frank L. Marsh (Electrical Engineer),
.........................245 Crescent St., Grand Rapids

Class of 1895

Rev. Ralph T. Flewelling, Head of Dept. of Philosophy,
Univ. of Southern California............Los Angeles, Cal.

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*Deceased.

Arthur LeRoy Toner, Salesman,
..........................664 Lucas St., Los Angeles, Cal.
A. B. Wight, Principal Talcott School, Chicago;
Home..............316 N. Schoville Ave., Oak Park, Ill.

Class of 1896

Rev. Lewis S. Brooke, D. D., Pastor Presbyterian Church ....Howell
Fred Fullerton, A. M., Life Insurance,
....................................312 Carter Block, Jackson
Anna Girmus........................521 Thayer St., Saginaw
Winifred F. Heston, M. D............Whitney Bldg., Detroit
William A. Howe, Supt. Schools..........Ocean Park, Wash.
Elizabeth Jones, Teacher......................Colton, Wash.
Mrs. J. A. McKee (Clara Booth)..........Westminster, Cal.
Edward C. Marsh, Vice-Pres., Macmillan Co., 64-66 Fifth Ave., New York; Home....39½ Washington Square
Joseph T. Northon, Supt. Schools................Kalkaska
*Richard Sidebotham.

Class of 1897

Kendall P. Brooks, A. M., Prof. Physics, Central Normal School, Mt. Pleasant; Home..............803 Normal Ave.
Mrs. K. P. Brooks (Gratia Dunning)...........Mt. Pleasant
Letta B. Burns, Teachers' Training College, Jamaica, New York; Home................133 Hewes St., Brooklyn
Rev. Jacob Klasse, Pastor Presb. Church...Clarence, N. Y.
Rev. A. J. Van Page...........437 S. 6th St., La Grange, Ill.
Fred R. Perry..Detroit

Class of 1898

Rev. Birdsey S. Bates, President, Whitworth College,
....Spokane, Wash.
Mrs. B. S. Bates (Frances Adams).........Spokane, Wash.
Paul H. Bruske, Advertising Agent; Home,
...................................195 Pallister Ave., Detroit
James I. Crane, Supt. Schools.................Krupp, Wash.
Rev. Sherman L. Divine, D. D., Pastor First Presbyterian Church.................................... Spokane, Wash.
Elmer Eckard, M. D., Central Bank Bldg.........Peoria, Ill.
Rev. Maurice Grigsby, Asst. Pastor Immanuel Presb. Church ....Detroit
Major Frank Knox...........Camp Dix, Wrightstown, N. J.

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*Deceased.

Rev. William H. Long, Pastor Presb. Church......Brooklyn
Franklyn Warren McCabe, Insurance,
.....................1147 Gordon Ave., Los Angeles, Cal.
Mrs. W. E. Myler (Mertha Peters),
........................153 Douglas St., Los Angeles, Cal.
Rev. Charles Ernest Scott, D. D., Missionary,
..............................Tsingtau, Shantung, China
Rev. John B. Stevens, Pastor Northern Light Church,
....Juneau, Alaska

Class of 1899

*Frances Thorne Booth.
Mrs. J. T. Clark (Maud Bishop).............Harbor Springs
Rev. Weston T. Johnson, Presbyterian Missionary,
....Sapporo, Japan
Rev. Harry E. Porter, Pastor Brighton Presby. Church,
....Zanesville, O.

Class of 1900

Mrs. Paul H. Bruske (Mary W. Plum),
..............................195 Pallister Ave., Detroit
Jacob C. Foote, Prof. of Eng., State Normal School,
....Bloomsburg, Pa.
Rev. George A. Hill, Pastor Drexel Park Presb. Church,
........................6339 Hermitage Ave., Chicago, Ill.
David H. Magaw, Merchant.......................Kent City
George B. Randels, Ph. D., Professor of Philosophy and Education, Alma College..........................Alma

Class of 1901

Mrs. A. W. Brighton (Winifred F. Carl),
............................154 Biddle Ave., Wyandotte
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*Deceased.

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*Deceased.

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Lieut. Maurice Cole... American Expeditionary Force, France
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Auda Cleo Gill, Teacher of Mathematics.............Clare
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Otha McCracken, Teacher of Mathematics..........Reading
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Arthur John McIntyre..................Camp Custer, Mich.
T. Lucille McQuade, Teacher.........................Elsie
Alfred Garlock Papworth.................................. ......Third Officers Training Camp, Camp Custer, Mich.
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Class of 1917

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Chester Robinson..............Camp Taylor, Louisville, Ky.
G. Carl Titus, H. S. Teacher....................Cheboygan
Elfleda Udelle, H. S. Teacher.....................Benzonia
Edna Ward, H. S. Teacher........................Midland

*Deceased.

FORM OF BEQUEST

"Item—I hereby give, devise, and bequeath to Alma College, a corporation organized and existing under the laws of the State of Michigan, of Alma, Gratiot County, Michigan, the sum of..............Dollars, to it absolutely."

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Address inquiries of all kinds except those noted below, to The President, Alma College, Alma, Mich.

High School principals will send entrance blanks to The Registrar, Alma College, Alma, Mich. Requests for credits should also be addressed to the Registrar.

Send checks for room deposits, tuition, board, etc., to The Secretary, Alma College, Alma, Mich. Make checks payable to Alma College.

Alma College Bulletin

Vol. 15, No. 4

March, 1918

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UNIVERSITY OF ILLINOIS

Alma College

Alma, Michigan

Catalogue for 1918-1919

Announcements for 1919-1920

UNIVERSITY OF ILLINOIS
APR 10 1919

IN NOMINE DEI, AMEN

"Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

Synod of Michigan, Grand Rapids, Oct. 14, 1886.

ALMA
COLLEGE

CATALOGUE
1918-1919

Announcements
1919-1920

ALMA, MICHIGAN

Calendar

1919

Jan.	27	Monday	Semi-annual Examinations begin.
Feb.	3	Monday	Second Semester begins.
Feb.	13	Thursday	Day of Prayer for Colleges.
March	21	Friday	Spring Recess begins, 12 noon.
April	1	Tuesday	College Exercises begin, 8 A. M.
May	2	Friday	Campus Day.
June	1	Sunday	Address before the Christian Associations, 3 P. M.
June	2	Monday	Final Examinations begin.
June	8	Sunday	Farewell Communion, 10 A. M.
			Baccalaureate Address, 7:30 P. M.
June	9	Monday	Class Day.
			Class Day Exercises, 8 P. M.
June	10	Tuesday	Alumni Day.
			Meeting of Board of Trustees, 10 A. M.
			Meeting of Alumni Association, 1 P. M.
			Senior Promenade, 8 P. M.
			President's Reception, 9 to 11 P. M.
June	11	Wednesday	Commencement Day.
			Commencement Exercises, 10 A. M.
			Commencement Luncheon, 1 P. M.
July	16	Wednesday	Alma College Assembly begins.
Sept.	15	Monday	Registration, 1:30-4:30 P. M.
Sept.	16	Tuesday	Registration continued.
			Late Registration Fee operative at 12 noon Wednesday.
Sept.	17	Wednesday	Classes begin. Opening Address.
Oct.	15	Wednesday	Founders' Day.
Nov.	26	Wednesday	Thanksgiving Recess begins, 12 noon.
Dec.	1	Monday	College Exercises begin, 1:00 P. M.
Dec.	19	**Friday**	Christmas Recess begins, 12 noon.

1920

Jan.	6	Tuesday	College Exercises begin, 8 A. M.
Jan.	13	Tuesday	Mid-year Meeting of Board of Trustees.
Jan.	26	Monday	Semi-annual Examinations begin.
Jan.	30	Friday	First Semester ends.
Feb.	2	Monday	Second Semester begins.
Feb.	12	Thursday	Day of Prayer for Colleges.
March	19	Friday	Spring Recess begins, 12 noon.
March	30	Tuesday	College Exercises begin, 8 A. M.
June	9	Wednesday	Commencement Day

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1919-1920

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*On leave of absence in government service.

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ALMA COLLEGE

Historical Sketch

LOCATION

The city of Alma, in which Alma College is located, is in Gratiot County, in almost exactly the geographical center of the lower peninsula of Michigan. It is on the Pere Marquette Railway between Grand Rapids and Saginaw, being about eighty miles from the former city and forty from the latter. It is also on the Ann Arbor Railroad, 145 miles from Toledo and eighty miles from Cadillac.

With paved and well-shaded streets, boulevard lighting, a complete sewer system, city water, electric lights, an exceptionally efficient public school system with a new high school building costing $65,000, and with numerous churches, this city of about 7,000 people has proved itself to be an unusually healthful and morally uplifting community, to which parents may safely entrust their children or to which they may move for the purpose of educating them.

HISTORY

On a Sunday evening in 1886, the Rev. J. Ambrose Wight preached a sermon from his pulpit in the First Presbyterian Church of Bay City, in which he emphasized the need of a Christian college in central Michigan. At the close of the service, Mr. Alexander Folsom said to Dr. Wight that he was ready to give $50,000 toward the founding of such a college. On September 28, 1886. the committee of the Synod met in Alma and received the formal offer of this gift. At the same time Mr. A. W. Wright offered, for the town, a campus on which two buildings for educational purposes had already been erected and furnished, the whole valued at $40,000. Other friends offered to provide for professorships for five years, to add to the endowment, to give toward current expenses, and to provide a library.

The committee made its report to the Synod in the Westminster Presbyterian Church at Grand Rapids on October 14, 1886, with the result that the Synod "Resolved, That in view of all the facts brought before us, we will, with God's help, establish and endow a college within our bounds."

The doors of Alma College were opened to students on September 12, 1887. Thirty-four young men and young women registered the first day. The total attendance during the year was ninety-five.

The first president of Alma College was the Rev. George F. Hunting, D. D., who served until April 20, 1891. On June 16, 1891, his successor, the Rev. August F. Bruske, D. D., LL. D., was inaugurated and served in the office until July, 1912. He was succeeded by Thomas C. Blaisdell, Ph. D., LL. D., whose term of service ended August 20, 1915. President Harry Means Crooks, LL. D., entered upon his duties in November, 1915.

In the summer of 1888 a heating plant was erected; in 1889 a library building was completed: in 1895 the gymnasium was completed; the Hood Museum was dedicated in June, 1900. Wright Hall was completed and opened its doors as the home for young women in 1902. The Davis Athletic Field was graded and enclosed in 1902, while its beautiful entrance gate was erected in 1912. During the past four years the campus has been greatly beautified by a systematic planting of trees and shrubs, while Pioneer Hall has been thoroughly renovated at a large expense and other needed improvements have been made.

Alma College has a campus of thirty-six acres. This with the buildings is valued at $175,000. The College has an endowment of about $445,000.

The material progress of Alma has been made possible by a host of friends, foremost among whom will always be mentioned Mr. Ammi W. Wright. His total gifts in addition to the endowment, in Wright Hall, in library funds, and in the payment of current expenses aggregate about $400,000. The passing of Mr. Wright on May 5, 1912 was mourned by every friend of the College, and particularly by the thousands of young people who have been blessed in their educational privileges by his liberality.

Admission to the College

REQUIREMENTS FOR ADMISSION

Each applicant for admission must satisfy the college officials that he is of good moral character. If coming from another college, he must bring a letter of honorable dismissal.

Admission is gained by (1) certificate, or (2) examination.

1. Recommended graduates of accredited high schools are admitted unconditionally if they present at least three units in English and its literature. two units in a foreign language, one unit in Algebra, one in Geometry, and one in Science. The remainder of the fifteen required units may include any of the subjects customarily offered in accredited high schools, except that not over three units of vocational work will be accepted. A unit means five recitations each week for a school year, totaling not less than one hundred twenty, sixty-minute periods in the clear. Laboratory, drawing, or shop periods not less than two hours in length are counted as equivalent to one recitation period.

Graduates of accredited high schools who are unable to present, in full, the required units listed above, may be admitted conditionally. However, such students will not be recommended to other colleges and will not be graduated until such additional work is completed as may be necessary to fulfill the entrance requirements.

2. Examinations are held at the opening of each college year for applicants who have completed an amount of work equivalent to fifteen units, but who are not graduates of accredited high schools. The

next examination will begin Monday, September 15, 1919.

Freshmen are admitted at the opening of the second semester, special arrangements being made for such matriculants.

All applicants for admission are urged to present at least two units in Latin.

Students of mature years, whose preparation is irregular, are permitted to enter classes for which they are prepared. They enter as special students, and are not regarded as candidates for a degree.

Graduates of accredited high schools who expect to enter Alma should secure from the College an application blank, or use the form inserted at the back of this Catalogue. This should be filled out by the principal and forwarded by him to the Registrar of the College. If accepted, the applicant will receive a statement from the Registrar entitling him to admission.

ADVANCED STANDING

A student bringing from an approved college a statement showing that he has completed a regular course of at least one year, will be admitted to equal standing in this College. Graduates of approved normal schools will be given full credit for completed work, provided they bring a duly certified statement of the subjects pursued.

No advanced credit is allowed for subjects studied in high schools unless at least one semester of post-graduate work in them has been done.

Advanced standing in single subjects may be obtained by examination, which may be arranged for with the head of the department concerned.

REQUIREMENTS FOR GRADUATION

The standard unit of credit used in estimating college work is one recitation period a week for one semester, or one "semester-hour." In laboratory courses a two-hour period is considered equal to a one-hour recitation period. One hundred twenty hours (together with one hundred honor-points*) and two hours in Physical Training are required for graduation, making the average requirements per semester fifteen recitation periods a week. The recitation period is fifty-five minutes in length.

The subjects comprised in the college course of instruction are arranged in groups, each of which contains (a) certain subjects required of all students; (b) two major subjects; (c) general electives, the choice of which is unrestricted.

(a) The required subjects are: English, six hours; History, six hours; Science, six to eight hours; Biblical Literature, eight hours; Foreign Language, sixteen hours.

(b) In order to provide for intensive work the student is required by May first of his sophomore year to choose a group of two major subjects in which, with certain prerequisite courses, he must secure a credit of forty hours. For the list of groups offered in 1919-1920 see below.

(c) The remainder of the one hundred twenty hours may be elected from any of the following departments of instruction of the College, due regard being paid to the limitations imposed by the program of recitations:

Astronomy
Biology
Chemistry
English
French
Geology
German
Greek
History
Latin
Mathematics
Music
Oratory
Pedagogy
Philosophy
Physics
Political Economy
Religious Education
Spanish

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*For explanation of honor-points, see "Credits and Honors," page 55.

The groups from which major subjects for 1919-1920 may be chosen are:

I. Greek-Latin.
II. History-Economics.
III. English-A Modern Language.
IV. English-Latin.
V. Philosophy-A Modern Language.
VI. Latin-German or French.
VII. Mathematics-A Laboratory Science.
VIII. Chemistry-Biology.
IX. History-English.
X. Physics-A Laboratory Science.

Freshman Year

Required Subjects:

1. Bible 11, two hours, first semester.
2. English 11-12, three hours, each semester.
3. Foreign language, four hours, each semester.

Optional Subjects:

Two subjects are to be chosen from the following list of first year courses, making, with the required work, fifteen or sixteen hours each semester: Foreign language, history, mathematics, science.

Sophomore Year

Required Subjects:

1. Bible 21, two hours, first semester.
2. Foreign language, four hours, each semester.

Elective Subjects:

A total of not more than fifteen hours of work, including the required work, is to be taken from the following list of second year courses: English, foreign language, history, mathematics, psychology, science. At least two different subjects (e. g. English, biology) must be chosen.

Junior and Senior Years.

In the work of these years must be included Bible 32 and 42, and the work in two majors, covering from twelve to fourteen hours each. The remainder of the sixty hours may be taken in general electives.

PREPARATION FOR PROFESSIONAL COURSES

Through the group system Alma College makes provision for a liberal education, as well as special preparation for students who have in mind future professional or technical courses. Professional study is largely a matter of memory unless the student has a knowledge of those subjects which underlie and give meaning to it.

The Ministry. The student who expects to pursue advanced studies in a divinity school, should major in the Greek-Latin group, with electives in philosophy, science, and sociology. Other electives to be considered are history, literature, and public speaking. The minister familiar with the details of athletic training has a distinct advantage in dealing with boys and young men.

Law. The best professional schools make a college course a prerequisite for entrance, and all good ones require at least two years of college preparation. The student who expects to enter upon the study of law should do his major work in the History-Economics group, with electives in philosophy, mathematics, public speaking and sociology.

Medicine. The physics, chemistry, and biology departments offer lines of major and elective work which are especially useful in preparation for the study of medicine. They are well equipped with facilities for laboratory work under competent instruction and offer a wide range of courses to premedical students.

Engineering. Students expecting to enter engineering schools should do major work in physics and mathematics, which with modern languages form a fundamental part of all engineering courses.

Teaching. The College makes a special provision for the needs of prospective teachers: (a) in its pedagogical courses, (b) in its special courses in the methods of teaching specific subjects, (c) in observation work and practice teaching, and (d) in its offer of a state teacher's certificate to those who meet the requirements of the pedagogical courses. The student who expects to teach a particular subject, should choose it as one of his majors.

LITERARY-PROFESSIONAL COURSE

Students who have completed three years (90 hours with 100 honor points) of the college curriculum, including required subjects, may be graduated with their class at the end of the following year upon the completion of the first year in a professional school approved by the Faculty, provided the proper official of the school certifies that at least thirty hours of work have been successfully carried.

Students who are planning to take such a course should consult the Faculty at the opening of the sophomore year in order that a suitable course of study may be arranged.

Courses of Instruction

The courses here described will probably be given within the next two years. Courses not dated are usually given within the current year.

A course whose number is odd is always given in the *first* semester; one whose number is even, in the *second* semester. The first digit in a number indicates the year in which the course is usually taken; if the second digit is 1 or 2 the course is usually introductory to later ones; double numbers (e. g., 21-22) indicate year courses. Thus, first year or freshman courses, are numbered 11 to 19; second year courses, 21 to 29; third year courses, 31 to 39; fourth year courses, 41 to 49. Single digits (e. g., 1, 3, 8) designate courses which are not assigned to a particular year.

ASTRONOMY

DR. NOTESTEIN

1-2. The aim of the course is to give the student a general knowledge of descriptive astronomy. The instruction is based upon the use of a text-book supplemented by lectures and the use of a telescope. Some time is given to the study of the heavens to enable the student to become acquainted with the names and positions of the principal stars and constellations. Six credits.

BIBLICAL LITERATURE AND RELIGIOUS EDUCATION

PROFESSOR BROKENSHIRE

11. **Old Testament History.** A study of the chief events and personages from the beginning of Sacred History to the time of Christ. The Biblical narratives themselves are studied as the source, sup-

plemented by lectures and assigned readings on the data furnished by the contemporary monuments of Babylon, Assyria, and Egypt. Geography is also studied, so far as it pertains to the history. Attention is paid to prophetic activity and literature, the poetry, and the "Wisdom Literature" of the Old Testament. Required of freshmen. Two credits.

21. **Gospel History.** The life of Christ is studied on the basis of the Gospels, attention being given to the historical trustworthiness of the Gospels, their relations, their characteristics, and the harmony of their narratives. The journeys and events of Christ's ministry are studied in the light of the geographical and historical conditions of His time. Required of sophomores. Two credits.

31. **The Bible as Literature.** Attention is directed to the literary beauties of the Bible, not only in the original texts as an Oriental classic, but especially in its translations as an all-pervasive, elevating force in English prose and poetry. Two credits.

32. **Apostolic History.** The Acts of the Apostles and the epistolary literature of the New Testament are studied as primary sources. A discussion of the origin of the Christian church, the life and work of Paul, and special introduction to the Acts of the Apostles and the Epistles. Required of juniors. Two credits.

33. **Church History.** A study of the career of the Christian church in its relation to the other elements of the life of the world, with attention to the development of Christian doctrine and the interior life of the church. 1920-1921. Two credits.

34. **History of Christian Missions.** A study of ancient, mediaeval, and modern missionary enterprise and biography, with special attention to the geography of modern missions and the elevating influence of Christianity as a force in individual and social life. 1920-1921. Two credits.

41. **Theism and Evidences of Christianity.** The apologetics of natural and revealed religion, the ultimate aim being to exhibit positively the reasonableness of Christianity as the supernatural and absolute religion, of which the Holy Scriptures are the divinely inspired record. 1920-1921. Three credits.

42. **Christian Doctrine.** A study of the fundamental doctrines of Holy Scripture, with emphasis on the essential agreement of the historic Christian church and all evangelical denominations. Required of seniors. Two credits.

43. **Comparative Religion.** Origin, characteristics, historical development and social significance of the world's great religions, with emphasis on Christianity as the absolute religion. Three credits.

44. **Ethics.** A study of the history of Ethics, with a discussion of the principal types of ethical theory and the problems of their practical application in the light of the Christian revelation. Three credits.

46. **Christian Workers' Training Course.** A study of the history, agencies, principles, and methods of religious education and practical Christian work. Three credits.

BIOLOGY

Dr. MacCurdy

11-12. **General Biology.** This course is designed to give the student a knowledge of the general principles of biology developed from the study of typical forms of plants and animals, at the same time laying the foundation for more advanced work. Laboratory work is supplemented by lectures on the simpler and more fundamental laws of biology as illustrated in the forms studied. Elective for all college students. Two lectures and two laboratory periods. Eight credits.

Note—For credit in general biology students may offer courses 21 and 22.

21. **General Zoology.** The lectures and recitations cover the principal facts of animal structure, physiology, development and classification, and emphasis is laid on the methods of observation and interpretation of biological phenomena. They are illustrated by museum specimens and wall charts, in addition to the detailed laboratory study of typical representatives of the main branches of the animal kingdom, in which especial attention is given to invertebrates. Two lectures and two laboratory periods. Four credits.

22. **General Botany.** Morphology and Physiology of Plants. This course includes a study of plant forms and their development, the development and relationship of the different members of the plant body, plant cells and cell structures, plant tissues, and their development and functions. Emphasis is laid on the interrelation of structure and function. Such texts as Strasburger, Coulter and Barnes, Vines, Stevens, Zimmerman's Micro-technique, and others are useful in this course. Two recitation and two laboratory periods. Four credits.

24. **Field Zoology.** An introduction to the life relations of the more common forms, their habits, the identification and classification of important groups. Types of habitats and the forms inhabiting them are studied. The economic importance of certain groups such as insects and birds is of vital interest, and these claim particular attention. The class is limited in number and none should enter without permission from the instructor. Two lecture periods with field work. Two credits.

31. **Comparative Anatomy of the Vertebrates.** Lectures and recitations on the comparative anatomy and general physiology of vertebrates. The laboratory work is on vertebrate types, which are studied with special reference to human anatomy and physiology. The course is of value to those preparing to teach and of special interest to those preparing for the study of medicine, as well as of general interest to others. Such books as Wiedersheim's Comparative Anatomy, Parker and Haswell's text-books of Zoology, vol. II, Jennings and Reighard's The Cat, are useful references. Prerequisite, Biology 21-22. Two recitation and two laboratory periods. Four credits.

32. **Physiology and Histology.** This is supplementary to the work in the study of anatomy of the vertebrates, and is designed to include the general physiological processes, with emphasis on those of the most practical nature. A suitable text with reference work and laboratory practice makes up the course. The references include standard and recent texts on physiology, and in the laboratory standard methods of general histology are used. Prerequisite, Biology 31. Two recitation and two laboratory periods. 1919-1920. Four credits.

33. **Embryology.** A study of the segmentation and development of the germ layers and early development of the principal structures of the vertebrate body. This is fundamental to a clear conception of many problems in biology. Two recitation and two laboratory periods. Four credits.

41. **General Bacteriology.** This is an introductory course dealing with the biology of non-pathogenic bacteria and other micro-organisms. The importance of a knowledge of these forms is recognized in many branches of science and daily life. The common methods used in the study of bacteria

are employed in the laboratory in the study of the bacteria of the household, foods, air and water. Emphasis is placed on the general physiological relations of bacteria, their distribution and relations to diseases. Buchanan's Household Bacteriology or Frost and MacCampbell's General Bacteriology is the text, with a laboratory guide. Prerequisite, Biology 11-12 or 21-22. Two recitation and two laboratory periods. Four credits.

42. **Heredity and Eugenics.** Since the discovery of the Mendelian law great advances have been made in a knowledge of heredity. Both science and education have gained by this, in the application of a knowledge of these laws to biological, sociological, and educational problems. This course takes up the study of the method and laws of heredity, unit characters, pure lines, elimination of undesirable traits, and the development of new and desirable traits, and the application of the principles of heredity to economic and sociological problems. Prerequisite, Biology 11-12 or 21-22. Two lecture periods. 1919-1920. Two credits.

43. **Entomology.** This is an introductory course dealing with the many phases of insect life. A suitable text will cover class-room considerations relative to the economic importance of certain injurious and beneficial species. Especial attention will be given those forms which transmit disease, for which control methods and elimination will be considered, and the foundations for advanced study in medical and sanitary entomology laid. Prerequisite, Biology 21-22. Two recitation and two laboratory periods. 1919-1920. Four credits.

The courses are planned to meet the needs of four groups of students:

I. Students wanting the humanistic and cultural value of a knowledge of biology; courses 11-12, 21-22, 42, 24.

II. Those who expect to teach; courses 11-12, 21-22, 31, 32, 24, 43.

III. Students preparing for the study of medicine; courses 11-12, 21-22, 31, 32, 33, and 24.

IV. Those looking toward work in science as a profession; courses as for II and III.

A major in biology should include twelve credit hours of work in addition to course 11-12.

CHEMISTRY

Professor West

11. **Elementary Inorganic Chemistry.** A beginning course which is open to all students of the College. Lectures based upon some good reference text as an outline. Two credits.

11 (a) **Laboratory Course.** This course must be taken by students taking course 11, but may be taken by students in other courses. Two credits.

13. **Inorganic Chemistry.** A study of some of the more advanced problems and theories. Lectures and recitations. Prerequisite, course 11 or its equivalent. Two credits.

13 (a) **Laboratory Course.** This course should accompany course 13, but other laboratory courses may be assigned if the previous work of the student demands it. Two credits.

22. **Qualitative Analysis.** The separation and identification of the constituents of chemical compounds and mixtures by both the wet and the dry methods. Prerequisite, courses 11 or 21, with the corresponding laboratory work. Two lectures and two laboratory periods. Four credits.

31. **Quantitative Analysis, Gravimetric.** Methods for the determination of the percentage composition of chemical compounds and mixtures, including commercial products and minerals. Prerequisite, all of the above courses. One lecture and three laboratory periods. 1920-1921. Four credits.

32. **Quantitative Analysis, Volumetric.** Volumetric methods for the determination of the percentage composition of chemical compounds and mixtures and their application to commercial work. One lecture and three laboratory periods. 1921-1922. Four credits.

33. **Organic Chemistry, Aliphatic Compounds.** Lectures based upon some good text as an outline together with laboratory work in making synthetic preparations, such as ethers, chloroform, ethyl bromide, methyl amine, acetal chloride, etc. Prerequisite, courses 21 and 22. Two recitation and two laboratory periods. Four credits.

34. **Organic Chemistry, Aromatic Compounds.** A continuation of course 33. Laboratory work in preparing such aromatic compounds as nitrobenzene, phenal bromide, sulphuric acid, aniline dyes, etc. Two recitation and two laboratory periods. Four credits.

42. **Industrial and Applied Chemistry.** Lectures with outside reading. The application of chemistry to engineering and agriculture. Two lectures. 1920-1921. Two credits.

1-2. **Bio-Chemistry for Women.** A lecture course with reference work dealing with topics of special interest to women, including a discussion of animal and plant life from the chemical point of view, such topics as interior decorations, dyes, fuels, paints, varnishes, gems, cleaning and bleaching agents, sanitation, ventilation, foods, etc. One lecture throughout the year. This course will be helpful to students who desire to take up work in biology, domestic science, or agriculture. Women who want some laboratory work may take two hours in course 11 (a). No previous knowledge of chemistry is required.

Courses 11 and 22, or courses 13 and 22, or courses 33 and 34 are to be taken in order and constitute a year's work. To receive full credit, at least a year's work must be taken in these courses. Students interested in medicine should take courses 11 or 13, 22, 33 and 34; engineering students, courses 11 or 13, 22, 31, 32.

ECONOMICS AND SOCIAL SCIENCE

PROFESSOR MITCHELL

31-32. **Principles of Economics.** This course is designed to cover the more important portions of the general field of economics. The student is expected to assimilate the general principles of the subject and to be able to apply them to the discussion of practical questions. An excellent library of economics, containing the important treatises in English on the subject, is at hand, and students are required to use it freely. Three credits.

41. **Principles of Taxation.** The historical development of taxation; a study of the different kinds of taxes, as the general property tax, the single tax, inheritance tax, income tax; taxation of corporations; double taxation, together with recent reforms in taxation. 1920-1921. Prerequisite, course 31-32. Three credits.

42. **Money and Banking.** A discussion of the theory and history of money and banking with spe-

cial reference to the United States. The gold standard; bimetallism; fiat money; our present currency; functions of a bank; first United States bank; second United States bank; our present national banking system; the federal reserve act and its operation; a comparison of foreign banking systems with our own, especially those of England, France, Germany, Scotland, and Canada. Prerequisite, course 31-32. Three credits.

44. **Corporations.** A study of the history and the present legal and financial status of the business corporation. Pools, agreements, legal trusts, holding companies. Prerequisite, course 31-32. 1920-1921. Three credits.

46. **Principles of Sociology.** An advanced general course. It includes an analysis and classification of social facts; discussion of the principles of social theory and the process of socialization; study of social feeling, public opinion and organized action; an inquiry into the causes of emotional epidemics, panics, mob violence, revolutions; an explanation of the growth of public opinion on great questions; an attempt to show from history and current events that public action is governed by definite laws of social change. Three credits.

ENGLISH

THE PRESIDENT, MISS ROBERTS, MRS. BEARDSLEY

11-12. **Rhetoric and Composition.** Study of the elements of effective writing. Practice in sentences and paragraphs, and in methods of exposition, description, and narration. Frequent short themes and occasional long compositions. A list of prescribed reading in modern prose authors. Required of all freshmen. Six credits.

21. **Composition.** Attention given to more ex-

tended forms of composition. Prerequisite, course 11-12. Two credits.

23. **Chaucer and Middle English.** The greater part of the semester is devoted to the study of Chaucer. Two credits.

24. **Shakespeare.** A careful study of eight of Shakespeare's plays. Three credits.

31. **Nineteenth Century Poetry.** A study of the chief poets, except Tennyson and Browning. 1920-1921. Three credits.

32. **English Fiction.** This course includes a consideration of the history and development of English prose fiction from the earliest times to the present day. Extensive reading in the principal authors under discussion is required. Two credits.

33. **Advanced Composition.** In this course much attention will be given to individual needs and ambitions of students. Journalistic forms, magazine articles, theses for class room will be considered along with orations, lectures and various forms of platform addresses. Class and individual hours to be arranged. 1920-1921. Three credits.

34. **Browning.** Three credits.

41. **Literary Composition.** A study of leading forms of literature with practice in construction. 1920-1921. Two credits.

42. **American Literature.** A study of the style and literary value of a number of famous American poems, essays, novels, etc. 1920-1921. Two credits.

43. **Contemporary Drama.** A study of twenty or thirty dramas written during recent years. Those from foreign languages will be read in translation. Two credits.

44. **Tennyson.** Three credits.

ENGLISH SPEECH

1. **Public Speech.** This is a general utility course and is designed to deal with forms of public speech expected of those who mingle in public affairs. Two credits.

2. **The Oration.** A course in the study and writing of orations. This course is especially designed for students intending to take part in the various oratorical contests. Three credits.

3. **Argumentation.** Consideration is given to the principles of argument, evidence, proof, and brief-drawing. Three credits.

4. **Debating.** The greater part of the work in this course will consist of the practical discussion of problems of the day, and especially the question for inter-collegiate debate. Two credits.

FRENCH

DR. BOBER AND PROFESSOR BROKENSHIRE

Course 11. Grammar, translations, both into English and into French, conversation as in the first 24 lessons of Fraser & Squair's Method. Chief emphasis is laid on proper pronunciation and constant conversational exercises in class. Four credits.

Course 12. Lessons 25 to 39 of Fraser & Squair's Method, also the exercises on the irregular verbs and on the use of the subjunctive. Reading in class of Scribe's "Le verre d'eau." Conversational exercises in class continued. Prerequisite, course 11, or one entrance unit. Four credits.

Course 21. French grammar review (Fraser & Squair as reference), composition and conversation in class as in François's "Advanced French Prose Composition." French short stories of the nineteenth century by Berthon. Reading in class of Dumas's comedy, "Les demoiselles de Saint-Cyr," with conversational exercises based on the text. Prerequisite, courses 11-12, or two entrance units. Four credits.

Course 22. Specimens of French poetry of the nineteenth century with a thorough study of French verse. Berthon. French grammar review (Fraser & Squair as reference), composition and conversation as in François's "Advanced Prose Composition." Reading in private of Dumas's comedy, "Les demoiselles de Saint-Cyr," and conversational exercises based on the text. Prerequisite, courses 11-12, and 21. Four credits.

Courses 23-24. Only for students who have had courses 11-12 (or two entrance units). Scientific French Reader (Herdler). This course may be substituted for the reading in class (in courses 21-22) of Dumas's comedy, "Les demoiselles de Saint-Cyr." Two credits.

Courses 31-32. Prerequisite courses 11-12, 21-22. MacMillan's "Second Course of French Composition and Material for Narration and Conversation." Chardinal's French Idioms for practice in class. The life and works of the seven greatest French authors of the nineteenth century. Fortier. To be read in private for examination, one work of each of the following authors: V. Hugo, A. de Vigny, Théophile Gautier. Six credits.

Courses 41-42. Prerequisite courses 11-32. French composition and narration as in parts II and III of MacMillan's Second Course of French Composition for advanced students. Chardinal's Idioms continued. History of French literature in the seventeenth and eighteenth centuries. Reading in private for examination of extracts from the works of

Corneille, Pascal, Racine, Molière, Boileau, La Fontaine, Voltaire and J. J. Rousseau. Essays.
Six credits.

GENERAL SCIENCE COURSE

Dr. Cornelius, Dr. MacCurdy, Dr. Notestein,
Prof. West

11. This is a course of semi-popular lectures planned to serve as an introduction to the regular courses in science. Its purpose is to give the student a general view of the entire field of natural or physical science, its spirit, problems, methods and results; and in this way to prepare him for a fuller understanding and appreciation of those phases of scientific activity that may later become attractive to him. The lectures are planned to cover in a general way the various branches of science, and are illustrated, as far as possible, with lantern slides and with experiments demonstrating the fundamental principles of modern science. Not offered in 1919-1920. Three credits.

GEOLOGY

Dr. MacCurdy

1-2. This course is planned to give a general knowledge of geology by study of the geological changes of the present and by presenting the chief facts and theories. A full knowledge of dynamic, structural, and historical geology is sought, attention being given to the geology of the North American continent and the geological history of Michigan. A good collection of minerals, rocks, and fossils is available for laboratory work. The course includes the use of a manual, lectures, selected readings, laboratory work, and field studies. 1920-1921. Six credits.

GERMAN

Dr. Bober

Course 11, for Beginners. Grammar, translations both into English and into German, conversation as in the first 23 lessons of the Comenian Method. Chief emphasis is laid on proper pronunciation and constant conversational exercises in class. Four credits.

Course 12. The exercises in Bernstorff's Grammar, pages 119 to 132, including exercises on the subjunctive. Reading in class of Gerstäcker's "Germelshausen" in the exercises. Selected poems by H. Heine. Prerequisite, course 11, or one entrance unit. Four credits.

Course 21. German grammar review with exercises as in Tuscott-Smith's German Composition. Short stories of the nineteenth century with conversational exercises. Baumbach's "Im Zwielicht" I. Reading in class of Moser's comedy, "Der Bibliothekar," with exercises based on the text. Prerequisite, courses 11-12, or two entrance units. Four credits.

Course 22. Specimens of German ballads from Uhland, Bürger, Gerok, Goethe, Schiller. German grammar review and composition and narration as in Tuscott-Smith's German Composition, pages 79 to 116. Reading in private of Moser's "Bibliothekar" with exercises based on the text for class work. Prerequisite, courses 11-12, and 21. Four credits.

Courses 23-24. Only for students who have had courses 11-12, or two entrance units. Scientific

German Reader (Dippold). This course may be substituted for the reading in class (in courses 21-22) of Moser's comedy, "Der Bibliothekar." Two credits.

Course 31-32. German composition and conversation and material for narration as in Pope's German Composition. Taker and Roget's German Idioms for practice in class. History of German literature from the beginning to Goethe's death. To be read in private for examination one work of each of the following authors: Schiller, Goethe, Wildenbruch. Prerequisite, courses 11-12, 21-22. Six credits.

Courses 41-42. German composition and narration as in part III. of Pope's Composition. Taker and Roget's German Idioms continued. History of German literature since Goethe's death up to the present time. The problem and Märchen drama with specimens of Sudermann, Fulda, and Gerh. Hauptmann. One of the epic poems by Jul. Wolff. Essays. Prerequisite, courses 11 to 32. Six credits.

43-44. **Faust, Part I.** The Faust Books and Marlowe's Faust. Prerequisite, courses 11 to 32. Four credits.

GREEK

DR. EWING

11. **Elementary Greek.** White's First Greek Book. Five credits.

12. **Xenophon's Anabasis.** Prose composition. Five credits.

21. **Colson's Reader.** Selections from Herodotus; Greek literature; prose composition. Prerequisite, courses 11-12. Four credits.

22. **Homer.** Book I of the Iliad translated and

the forms and metrical peculiarities carefully studied; rapid reading of the most interesting portions of the text with frequent practice in sight translation; topical study of the Homeric age; Greek literature. Prerequisite, course 21. Four credits.

31. **Lyric Poetry.** A study of the various forms of the lyric as a connecting link between the epic and the drama. Prerequisite, courses 21-22. Four credits.

32. **Dramatic Poetry.** The reading of selected plays; lectures on the origin and development of the drama; Greek Literature. Prerequisite, course 31. Four credits.

33. **Herodotus, Thucydides, Xenophon.** Notes on Greek constitutional development, illustrated by copious readings. Prerequisite, courses 21-22. Four credits.

34. **Lysias, Demosthenes.** A study of the history and influence of Greek oratory. Prerequisite, course 33. Courses 33-34 alternate with courses 31-32. Four credits.

41. **Plato; Xenophon.** Selections from Plato's Apology, Crito, and Phaedo, and the Memorabilia of Xenophon; outlines of Greek philosophy. Three credits.

42. **Theocritus; Lucian.** Studies in the later literature. Three credits.

1. **New Testament Greek.** A careful study of Hellenistic Greek based upon the Gospel of Luke. This course alternates with course 3. Three credits.

2. **Greek Literature in English.** A reading of Greek masterpieces in translation supplemented by lectures on the development of literary form among the Greeks. This course alternates with course 4. 1920-1921. Three credits.

3. **The Greek in English.** A brief course in the

elements of the language, primarily for the benefit of scientific students in acquiring a better knowledge of the terminology of science. 1920-1921. Three credits.

4. **Greek Life and Art.** A study of the civilization of the Greeks and its influence upon later peoples and times, by means of lectures and supplementary readings, and illustrated by the use of the lantern. A knowledge of Greek is not necessary for this course. Three credits.

The major in Greek must include, in addition to courses 21 and 22, twelve hours to be selected from courses 31 to 42, and 1.

HISTORY AND POLITICAL SCIENCE

Professor Mitchell and Mr. Helmer

11. **European History.** From the fall of the Roman empire in the west to the Peace of Westphalia, 1648. Three credits.

12. **European History.** From the Peace of Westphalia to the present time. Three credits.

21-22. **The History of Europe Since 1870.** Prerequisite, courses 11 and 12. 1920-1921. Six credits.

32-34. **History of England.** Political and constitutional. Six credits.

25. **History of the United States.** Colonial and Revolutionary periods. 1492-1789. Prerequisite, courses 11 and 12. Three credits.

26. **History of the United States.** National Development and the Slavery Question, 1789-1861. Three credits.

31. **History of the United States.** The Civil War and Reconstruction, 1861-1876. Prerequisite, courses 25 and 26. 1920-1921. Three credits.

32. **American Government.** An analysis of the nature, structure, and working of the Federal Government and a comparison with foreign systems. 1920-1921. Three credits.

33. **The State.** A discussion of the origin. forms and ends of the state, together with a history of the formation of the constitutions of England, France, Germany, and the United States. Prerequisite, courses 11 and 12. 1920-1921. Three credits.

41-42. **European Governments.** A study of the governments of England, France, Germany, and Italy. 1920-1921. Six credits.

1. **Greek History.** From the earliest times to the death of Alexander. Three credits.

2. **Roman History.** From the earliest times to the barbarian invasion. Three credits.

KINDERGARTEN TRAINING

Miss Robinson and Miss Conyne

Freshman Year.

11-12. **Kindergarten Theory 1.** This course covers a study of the theory of (a) Plays and games. (b) Child study, (c) Story work, (d) Hygiene. Six credits.

13. **Kindergarten Technics. 1.** The Froebelian gifts are studied with special reference to their technic, the aim being to develop skill and ability in their use as material. Two hours. One credit.

14. **Kindergarten Technics 2.** The second semester is given to a study of traditional street games with special emphasis on the simplification and adaptability to use in the kindergarten and in the playground. One hour. One-half a credit.

15-16. **Kindergarten Arts 1.** This work includes the traditional Froebelian occupations: sewing, weaving, paper folding, and clay modeling; also a study of the significance of industrial arts in racial development. Four hours. Two credits.

17-18. **Ethics.** Every-day Ethics by Cabot is used as a basis for the discussion of questions of ethics as related to everyday living. Two credits.

Sophomore Year

21-22. **Kindergarten Theory 2.** This course involves a study of the organization of the kindergarten program in relation to the selection and unification of child impulses, interests, and educative stimuli. Students will submit plans of work for class discussion and criticism. Each student will also write a year's outline including the use of the various instrumentalities of the kindergarten such as songs, games, stories, arts, excursions, etc. Two credits.

23-24. **Kindergarten Technics 3.** During the first semester songs, games, rhymes, and dramatization are studied from the point of view of musical construction and suitability for children. The second semester is devoted to a comparative study of the educational methods and materials of Froebel, Dewey, and Montessori. One credit.

25-26. **Kindergarten Arts 2.** This course involves a consideration of all kindergarten arts and outside materials with practical applications. One credit.

27-28. **Froebelian Philosophy.** This course is based on a study of Froebel's Mother Play and Education of Man, supplemented by such other educational philosophers as Dewey, Butler, and Horne. Four credits.

29-30. **Children's Literature.** This work covers the essential aspects of children's literature, such as Mother Goose, folk and fairy tales, myths, and Bible stories. It aims to acquaint the student with the fundamental principles of choice, preparation and classification of stories. Practice in story-telling is an important part of the class method. Four credits.

Teaching. The work in teaching consists of experience in the college kindergarten supplemented by teachers' meetings and personal criticisms. Six credits.

In addition to the above courses the student must complete: Bible 11 and 21; six to eight hours of science; English 11-12; psychology 21-22, and education 31-32, in addition to the required work in gymnasium and solfeggio 1-2.

This work is generally covered in two years, at the end of which time the student is recommended to the state for the granting of a life certificate. It is offered on the basis of the usual entrance requirements and may be entered upon in the freshman year. It is desirable that the groups be small and the Faculty reserves the right to accept or reject applicants on the basis of health and demonstrated adaptability for the work.

LATIN

Dr. Ewing

11-12. **Beginner's Course.** The elements of the language; D'Ooge's First Latin Book. Cæsar; prose composition. Ten credits.

This course is the equivalent of the two units of foreign language required for entrance to college or to the law or medical school.

13-14. **Intermediate Course.** Cicero: orations and letters. Vergil: Æneid. Ten credits.

This course is offered to those who have had two or three years of Latin and wish to prepare themselves to enter course 15 in one year.

15. **Cicero, De Senectute.** Inflections and word analysis; reading of selections from Ennius, Lucretius, Vergil, Sallust; Roman literature of the Republic. Four credits.

16. **Livy, Book XXI.** Review of syntax; a play of Terence for reading at sight; topography of Rome. Four credits.

21. **Horace.** Odes and selections from the Epodes; study of the style and qualities of Horace; social and political conditions of the Augustan age; literature of the Augustan age. Three credits.

22. **Pliny's Letters.** Selections from Martial, Tacitus, Suetonius; Silver Age literature. Three credits.

31. **Roman Drama.** Plautus, Terence, Seneca. Three credits.

32. **Roman Philosophy.** Lucretius, Cicero, Seneca. Three credits.

41. **Roman Satire.** Horace, Persius, Juvenal. Three credits.

42. **Roman Elegy.** Catullus, Tibullus, Propertius. Three credits.

1. **Roman Literature in English.** An outline course of readings in the best translations, offered primarily to non-classical students. Three credits.

3. **Roman Life and Art.** Private life of the Romans; lectures and readings, illustrated by the lantern. This course does not require a knowledge of Latin. Alternates with course 1. 1920-1921. Three credits.

2. **Teacher's Course.** A careful study of por-

tions of Cæsar; review of elementary Latin grammar, pronunciation, etc.; methods of work of the first and second years of Latin study. 1920-1921. Two credits.

4. **Teacher's Course.** A careful review of one oration of Cicero and one book of the Æneid, with special attention to forms and syntax, and versification; methods of teaching third and fourth year Latin. This course alternates with course 2. Two credits.

The major in Latin must include, in addition to courses 15-16, twelve hours to be selected from courses 21 to 42.

LIBRARY METHODS

Miss Cook

31. A course in classification, cataloguing, reference work and bibliography. Elective for juniors and seniors. One credit.

MATHEMATICS

Dr. Notestein

11. **Trigonometry.** The theory of logarithms and other selected portions; a study of the functions of angles; trigonometric formulae, their derivation and transformation, with their application to the solution of problems. Four credits.

12. **Analytical Geometry.** The bilinear and the polar system of co-ordinates; properties of the straight line and conic sections; general equation of the second degree and higher curves. Four credits.

21-22. **College Algebra.** This course includes progressions, binomial theorem, undetermined coefficients, series and higher equations. Four credits.

23-24. **Spherical Trigonometry and Solid Analytical Geometry.** Napier's rules of circular parts; the solution of problems and the application of spherical trigonometry to astronomy. Systems of co-ordinates in solid analytical geometry; lines, planes and surfaces. Prerequisite, 11 and 12. Four credits.

31. **Differential Calculus.** A study of the rules and formulæ for differentiation, expansions of functions, indeterminate forms, application of calculus to curves, maxima and minima. Five credits.

32. **Integral Calculus.** This course includes a study of the methods of integration, the application of integral calculus to curves, areas, volume, moment of inertia, pressure, etc. Five credits.

33-34. **Surveying.** A combined theoretical and practical course covering such topics as adjustments of instruments; land surveying, including running of lines, reestablishing of corners, determination of heights; simple triangulation; measurement of areas; leveling; topographic surveying; laying out of curves and computation of earthwork. Prerequisite, course 11. 1919-1920. Four credits.

41-42. **The Theory of Equations.** This course includes a study of the general properties of the equation; transformations; differentiation of algebraic functions; cubic and biquadratic equations; location of roots; the solution of numerical equations and the theory of determinants. Six credits.

43-44. **Teacher's Training Course.** This is an elective course open to juniors and seniors who are planning to teach mathematics in secondary schools, and to all other students who may need such a course. The work of the first semester will include a review of the fundamental principles of high school mathematics supplemented by advanced work in these branches. The second semester will embrace a discussion of standard text-books; methods of teaching and selected topics from the History of Mathematics. Six credits.

45-46. **Advanced Calculus.** A continuation of courses 31-32, with numerous practical applications of the differential and integral calculus. Six credits.

47. **Analytical Mechanics.** This course treats of the fundamental principles of mechanics, the composition and resolution of forces, center of mass, friction, virtual velocity, machines, attraction, rectilinear and curvilinear motion. Three credits.

48. **Analytical Mechanics.** This course deals with the laws of motion, forces, vis viva, impact, work and energy, moment of inertia, rotary motion, motion of a system of rigid bodies in space. Three credits.

The major in mathematics must include, in addition to courses 31-42, six hours selected from courses 41 to 48.

MECHANICAL DRAWING

DR. CORNELIUS.

21. **Mechanical Drawing.** This course consists in practice in the use of drawing instruments, lettering, making of plates from copy, and aims to acquaint the students with the methods and technique of mechanical drawing. It is planned especially to meet the needs of engineering students, but is open to any who for any reason desire a working knowledge of mechanical drawing. Two credits.

22. **Advanced Mechanical Drawing.** The subject matter of this course is varied to meet the

needs of the individual student. For engineers the work is devoted to the sketching of machine parts, working drawings, tracings, and blue prints. For those students who intend to pursue general science, architecture, manual training or domestic science, practice is given in working drawings, house planning, etc. Prerequisite, course 21. Two credits.

MUSIC

MR. HOSMER AND MISS ROBERTS

1-2. **Solfeggio and Ear Training.** Rudiments of music, major and minor scales, elements of notation, sight singing, interval and chord dictation. Four credits.

3-4. **Harmony.** Harmonizing melodies in soprano and bass. Principal and secondary triads of the major scale and their inversions, principal triads of the minor scale and their inversions, dispersed harmony. Written and keyboard work. Prerequisite, course 1-2 or its equivalent. Four credits.

5-6. **History of Music.** A study of the development of the various schools and forms of composition, evolution of musical instruments, biographies of great musicians. Two credits.

7-8. **Theory.** Summary of knowledge required of any professional musician taking up acoustics. Musical terminology, rhythm and accent, notation, figuration, meter, hymn construction, figure treatment, song forms, sonata forms, symphony, rondo concerto, rondo, overture, prelude, vocal forms, analysis of counterpoint and fugue. Prerequisites, courses 1 to 6, or their equivalents. Four credits.

9-10. **Diction for Singers.** Elements of good diction in English, French, Italian, and German. Two credits.

Pianoforte, Organ, and Voice Courses. Private lessons. Special tuition.

The first five courses are open to regular college students as elective or major subjects. Candidates for an A. B. degree desiring to major in music must present the work in all the theoretical courses and in addition an advanced course of two hours a week in harmony, which will be given for such students. They must also present the practical work of two private lessons per week in piano, organ, or voice throughout the course.

Candidates for special certificates in music must present besides regular college entrance requirements the following prescribed courses: Theoretical music courses 1 to 10 inclusive, major practical subjects, four years, two lessons per week.

Tuition in all theoretical subjects in classes of five or more is five dollars per semester. Regular college students can apply their regular college tuition to these theoretical courses.

A chorus of mixed voices is conducted throughout the year, giving several performances of oratorio and mixed programs. All students of the College are eligible for membership.

PHILOSOPHY AND EDUCATION

DR. RANDELS

Philosophy

31-32. **History of Philosphy.** The study of what the great thinkers of the world have thought and written about the problems of life. Six credits.

33. **Logic.** A study of principles of inductive and deductive reasoning. Three credits.

34. **Aesthetics.** A consideration of the principles

which underlie the æsthetic appreciation of architecture and painting.

41. **Readings in Modern Philosophy.** This course will serve as an introduction to philosophy, since some of the fundamental problems of philosophy will be especially noted. There will be a first-hand study of the writings of Descartes, Locke, Berkeley, and Hume. 1920-1921. Three credits.

42. **Readings in Philosophy.** A first-hand study of the writings of other philosophers than those studied in connection with course 41. 1920-1921. Three credits.

Psychology

21. **General Psychology.** The purpose of this course is to interest the student in the study of himself. The text-book work is supplemented by simple experiments designed to give the student first-hand information and to promote independent work. Three credits.

22. **General and Educational Psychology.** Continuation of course 21 with especial attention to those parts of psychology which have the widest application to education. Three credits.

Education

31-32. **History of Education.** An outline of the development of educational theory and practice in the light of economic, social, political, philosophical, and religious conditions in different ages. Four credits.

41. **Secondary Education.** Especial consideration of the curriculum in its historical setting, in relation to adolescence and to the demands of society. Two credits.

42. **General Principles of Method.** Selection and arrangement of subject-matter, the doctrine of interest, the formal steps, the preparation of lesson plans, classroom management. Two credits.

Graduates from any of the college groups of study who complete not less than eleven hours of the above courses in psychology and education in addition to Psychology 21 will be recommended by the Faculty to the State Board of Education for a teacher's certificate which will enable them to teach in the public schools of Michigan without examination.

A major in philosophy includes courses 31-32, and fourteen hours' work selected from courses 33 to 42 and course 44 in the department of religious education. Psychology 21-22 is a prerequisite to major work in philosophy.

PHYSICS

Dr. Cornelius

11-12. **General Physics.** This course is intended to acquaint the student with the elementary facts, the methods and the general principles underlying physical science. It is designed to meet the needs of those students who wish a knowledge of physics for its cultural value as well as those who intend to enter a medical school. Lectures and recitations. Six credits.

This course should be accompanied by course 23-24.

21-22. **General Engineering Physics.** This course is designed for those students who wish a more extensive and rigid course than that offered in course 11-12, and for those who expect to pursue engineering courses or advanced work in exact science in this or other departments. Lectures and recitations. Eight credits.

Registration in trigonometry is advised. This course should be accompanied by course 23-24.

23-24. **Laboratory Physics.** This course consists of quantitative measurements, the use of instruments of precision, the verification of the laws of physics, the determination of the constants and coefficients, and the manipulation of apparatus. Four credits.

In addition to the foregoing general courses, the work of the department is planned to offer advanced courses in order that a student may complete a major in physics, thus fitting himself to teach the subject, or equipping himself with a general training for a scientific career, such as that of commercial physicist or engineer. Some of the advanced courses will be given each semester and the number will be varied to meet the needs of the students. Courses 21-22 and 23-24 are prerequisites to all of these courses.

31. **Light.** Advanced course. Geometrical and physical optics are treated in detail. Under the former head some of the most important optical instruments are studied, such as the camera, the microscope, telescope, etc. Under the latter head the theory of light is developed. The course is intended to be a practical and useful study of optics and aims to give a careful, scientific explanation of many optical phenomena, such as spectroscopy, diffraction, dispersion, interference and polarization. It is advisable to supplement this course with course 35. Three credits.

32. **Electricity and Magnetism.** This is an advanced course dealing with the fundamental facts of the subject, magnetic fields, electrolysis, thermoelectricity, potential, current, resistance, induction, capacity, practical applications in electric machinery, the electro-magnetic theory of light, discharge of electricity through gases, X-rays, and wireless waves. It is advisable to supplement this course with course 35. Three credits.

34. **Heat.** Advanced course. This course is

planned to give a comprehensive view of the science of heat. It should be of particular value to those who intend to teach science or to those who expect to pursue mechanical engineering. The study includes the consideration of mercurial and air thermometers, calorimetry, heat equivalents, coefficients of expansion, vapor pressures, conductivity, hygrometry, pyrometry, liquid air, and weather forecasting. It is advisable to supplement this course with course 35. Three credits.

35. **Advanced Laboratory.** One, two or three periods per week, depending upon the needs of the student. This course offers individual work on topics chosen from courses 31, 32, 34, which will best meet the needs of the student, and should be taken in conjunction with those courses.

41. **Elements of Modern Astro-Physics.** This course includes a study of optical instruments, and the application of physics to the determination of astronomical facts, such as the temperature of the sun, the characteristics of its spots, the magnitude and similarity of its magnetic field to that of the earth, its period of rotation, and the history and composition of the solar and sidereal systems. Prerequisite, astronomy 1-2. Three credits.

42. **Training Course for Physics Teachers.** The course includes a resumé of the history of physics and a study of the best methods of presenting a secondary course in physics in the light of the important part physics is playing in present-day life. Ample opportunity is given the student for a critical study of subject matter, examination and choice of text-books, and selection of apparatus to meet the needs of a secondary school. Two credits.

2. **Household Physics.** This course aims to present the principles of Physics as they are applied in the household in everyday home life. The course is presented in a less technical and less mathematical man-

ner, and is intended to be more purely informational than the regular physics courses. It is open to all young women who desire a general working knowledge of physics and is especially valuable to those who intend taking domestic science in the future. It is recommended that this course be accompanied by Household Physics 2L. Lectures and recitations.
Two credits.

2L. **Household Physics.** The course consists of practical experiments in electricity, light, heat, sound and mechanics, such as are commonly met with in home life. One credit.

A major in physics must include 12 hours selected from courses 31 to 42.

PHYSICAL TRAINING FOR WOMEN

Mrs. Beardsley

The graded course of regular class work, which is offered to and required of every woman student, covers two years of training, for which classes meet three times a week. The floor work consists of drills in Swedish gymnastics, dumb-bells, Indian clubs, wands, the Delsarte system of movements for grace and rhythm, games, and aesthetic and national dances. A certain amount of outdoor work is included in the regular course. Long walks, skating, tennis, and other outdoor sports in season. The regular tournament deciding the college tennis championship is held in May. In connection with the floor and outdoor work, a study of hygiene and "first aid" is required of everyone.

An examination is made when the pupil arrives, and exercises are prescribed by the instructor to correct any irregularity or weakness in development noted at the time.

All students taking the work are expected to wear the uniform, which is black serge bloomers, white cotton blouse, and Swedish gymnasium shoes.

PHYSICAL TRAINING FOR MEN

MR. HELMER

Much attention is given to the health and physical welfare of the men of the College. In order to help toward this end the work in physical training has been put on a credit basis, two hours' work being required of each student before graduation.

During the spring and fall months, out-door work is emphasized through competition for positions on the various teams, namely, football, track, tennis, and cross-country running; while during the winter months, from November 1st to April 1st, regular gymnasium practice is required of all freshmen and sophomores.

The ultimate aim of athletic instruction in Alma College is not the creation of a few stars, but the development of the individual to a greater physical efficiency.

At the beginning of each semester the student will be subjected to a careful physical examination and measurements. Exercises in the gymnasium will then be prescribed which are appropriate for his needs.

11-12. **Physical Training I.** Freshman year. Two hours. One credit.

21-22. **Physical Training II.** Sophomore year. Two hours. One credit.

31 or 32. **Physical Training Theory; Coaching.** Two credits.

1-2. **Physical Training III.** This course consists in training in competitive athletics, namely, in football, basketball, baseball, track, and tennis.

SPANISH

11. **Beginner's Course.** Grammar, translation, both into English and into Spanish, together with conversational exercises as in the first 21 lessons of Olmsted and Gordon's Spanish Grammar and Reader. Four credits.

12. Espinosa's "Advanced Spanish Composition and Conversation," with Olmsted and Gordon's Spanish Grammar as reference. Selected poems. Extracts from the works of modern Spanish writers. Prerequisite, course 11. Four credits.

Courses 21 and 22.

A. "Olmsted and Gordon's Spanish Grammar" to be finished. Publishers: Henry Holt & Company, New York.

B. "Advanced Spanish Composition, Conversation and Narration" as in Espinosa. Publishers: H. Sanborn & Co., Chicago.

C. "La conjuvoción de Venecia" by Martiny de la Rosa. Publishers: Benj. H. Sanborn and Co., Chicago. Four credits.

General Information

SUGGESTIONS TO APPLICANTS FOR ADMISSION

The requirements for admission to the college are presented on pages 13 and 14. For an understanding of the nature and scope of the courses of study of the College, the applicant should study the description of courses presented on pages 19 to 52. The index at the end of this Catalogue will direct him to the page on which any given subject is treated.

New students should arrive the Monday before the opening of a semester, so as to conclude all necessary arrangements. Young women should go directly to Wright Hall and consult the Dean of Women. Young men should go at once to the President's office in the main college building.

ADMISSION AND DISMISSION

Applicants for admission to any department of the institution will first report to the President for registration. They must present testimonials of good character, and those who are from other institutions of learning must furnish certificates of standing and of honorable dismissal.

All students admitted to the institution will be on probation for the first three months. If during this period a longer stay is deemed inadvisable by the Faculty in the case of any student, he may be so informed privately and permitted to withdraw. Any student may at any time be privately dismissed if the Faculty deem his further connection with the school undesirable. All students entering the College accept these conditions of matriculation.

Any student against whom there are no unpaid bills nor charges of misconduct is entitled to an honorable dismissal.

STUDIES AND EXAMINATIONS

(Students are expected to inform themselves fully as to these provisions and to conform to them carefully.)

No student may take up a study out of the order prescribed in this Catalogue nor drop a study once entered upon, without the consent of the Faculty.

No student is allowed to take less than twelve hours of work, nor may he take more than sixteen hours of work without special permission. An applicant asking permission to take more than sixteen hours of work must have maintained an average of B in the work of the previous semester. A total of eighteen hours only is allowed under this provision.

Students whose class work in the current semester averages below B-, or who have more than two conditions, are not allowed to represent the College as delegates to conventions or as members of debating, oratorical, or athletic teams.

The choice of majors must be made by May 1 of the sophomore year and majors thus chosen can be changed only with the consent of the Faculty.

No grades below B- shall count toward majors.

Examinations are held at the close of each semester and at intervals during the semester at the discretion of the instructor. The results of examinations are reported to parents at the end of each semester, and recorded for future reference. In case of freshmen, a report of class standing is sent also at Thanksgiving recess.

Students who do not earn a minimum of twelve honor-points in any semester shall be put on probation for the following semester with a schedule of not more than twelve hours. If this action does not result in satisfactory work, the student concerned shall be dropped from the College at the end of the semester.

Conditions must be removed (a) by examination within one semester from the time when they were imposed; or, (b) where courses continue, by making a grade of B in the work of the next semester: if not so removed, they become failures.

CREDITS AND HONORS

By the college marking plan, excellence in scholarship is recognized through a system of honor-points corresponding to the class standings received.

Class standings are indicated by letters. A, B, B—, C, C—, D are passing grades. But honor-points are earned by the first three letters only. For a grade of A in any subject, three times as many honor-points will be given as there are hours in the course; for a grade B, twice as many honor-points; and for a grade B—, the same number of honor-points. One hundred honor-points are required for graduation. For graduation cum laude, 200 points are required; for graduation magna cum laude, 250 points are required; and for graduation summa cum laude, 300 points are required.

DEGREES AND CERTIFICATES

The degree of Bachelor of Arts (A. B.) is conferred upon all graduates of the College, except that the degree of Bachelor of Science (B. S.) may be conferred upon graduates who have had at least one-half of their college work in mathematics and science, if they prefer this degree.

The Bachelor's degree will not be conferred upon a student unless he has been in residence for at least one year. As a rule, a student must be in residence during the year immediately preceding his graduation.

Students who complete the prescribed courses in kindergarten training or in music, will receive certificates.

RULES FOR CLASSIFYING COLLEGE STUDENTS IN THE CATALOGUE

1. For sophomore standing a minimum credit of 40 hours is required; for junior standing, 70 hours; for senior standing, 100 hours.

2. No student shall be classified as a sophomore who has any entrance conditions; nor as a junior, who has any freshman conditions; nor as a senior, who has any sophomore conditions.

DIVISIONS OF THE COLLEGE YEAR

For purposes of administration and instruction, the year is divided into semesters of eighteen weeks each, the first opening about the middle of September, the second about the 1st of February.

Students absent from recitations immediately preceding or following a recess are assessed one dollar for each absence, up to a limit of three in either case.

For the dates of the opening and the closing of semesters, see Calendar at the beginning of this Catalogue.

BUILDINGS AND EQUIPMENT

There are at present six academic buildings on the college campus; the Recitation building, Wright Hall, the library, Hood museum, the gymnasium, and Pioneer Hall. There is also a central heating plant.

Recitation Building

The Recitation building contains the college offices, the chapel, twenty-two recitation rooms, laboratories, and department offices, and halls for the Zeta Sigma and Phi Phi Alpha literary societies.

Wright Hall

Wright Hall, the home provided for the young women through the munificence of the late Ammi W. Wright, in architectural appearance and in adaptation to its purposes is not excelled by any building of its kind in the country. It is built of paving brick trimmed with stone, and is four stories in height above the basement, which is constructed of field stone. The interior finish is very pleasing and the arrangements for the comfort of the occupants are complete. Great care is being taken to surround this noble edifice with a fit setting of greensward, shrubbery, and trees, that it may typify to successive generations of college students the ideal college home.

Unless excused by the Faculty, all young women are expected to live in Wright Hall, which is under the immediate supervision of the Dean of Women. She is directly responsible for the government of the young women and will assign them their rooms and have the general supervision of their personal habits and activities.

Parents should not make arrangements for a daughter to live outside Wright Hall without first consulting the Dean of Women or the President.

Parents and guardians are invited to communicate freely with the Dean touching the interests of their daughters and wards, thus enabling her to understand and meet the peculiar needs of each student.

Girls under sixteen years of age will not be received, except by special arrangement.

At the time of application for admission, a deposit of $5 must be made by each student in order to reserve a room. This deposit will be retained in the Secretary's office until the close of the college year as a contingent fee to pay for possible breakage or injury to furniture or equipment of Wright Hall. This sum will be refunded if the student decides to withdraw, provided notice is sent a month before the beginning of the college year. Make checks payable to Alma College. A deposit of fifty cents is required of each occupant for a room key.

Wright Hall is open to receive young women on Monday, September 15, the noon meal being the first served. Students are requested not to arrive earlier unless by special arrangement with the Dean.

The rooms are single or arranged in suites and are furnished with single enameled couch bed and springs, felt mattress and pad, pillow, oak dresser, study table, bookcase, chairs, and window shades. Each student must furnish her own towels, two pairs of sheets and pillow-slips, blankets or comforts, floor coverings, and such conveniences and adornments as may be desired. Lavatories in bath rooms.

Because of the danger of fire, the Trustees of the College prohibit the use of chafing dishes, electric cooking appliances, electric irons, etc., except in rooms especially provided in the basement. Parents are asked to co-operate in enforcing this regulation.

Pioneer Hall

Pioneer Hall, one of the two original college buildings, is the dormitory for young men. The building is heated by steam and lighted by electricity. Baths, together with ample toilet conveniences, are provided in the basement. It is as good a dormitory for men as is to be found in the state.

Students living in the building are loosely organized for government. They make their own regulations and enforce them under the advice of the President and a faculty committee. This form of government has been satisfactory.

This building accommodates between fifty and sixty young men. Those unable to secure rooms in it, will be directed by the College to satisfactory rooms in private homes.

Rooms in Pioneer Hall are provided with bed, springs, mattress, table, chairs, bookrack, and wardrobe. Students must furnish for themselves towels, sheets, pillowslips, and blankets. They also pay for laundering these articles. Rooms are $1.25 a week for each occupant. Upon engaging a room each student deposits $5.00, which is returned if for any reason the room is not desired and due notice is given before September 1. This deposit is made to meet any damages that may be assessed against the student, either such as may be traced to him or such as may be assessed pro rata upon the occupants of the Hall for damage done therein. Any unexpended balance of this deposit will be returned to the student within one week after the close of the year. For his room key each student deposits fifty cents, which is refunded when the key is returned. Young men desiring to engage rooms should address the College. Checks should be made payable to Alma College.

The Library

The library building contains the stack room, the large and well-lighted reading room, and a separate history room. It is built of red brick trimmed with stone, is handsomely finished in hardwood, and is in all respects well adapted to its particular use.

In the library building, besides the general library, are the following special collections:

1. The Lucy Plum Mitchell Library of History and Political Economy.
2. The Sarah H. Lancashire Library of Fiction.
3. The Arthur Hill Library of Lincolniana.
4. The Joseph W. Ewing Memorial Library of Pedagogy and Education.

5. The Mary C. Gelston Library of Latin Language and Literature.

6. The David M. Cooper Memorial Library of Ethics and Theology.

7. The Pollasky Law Library.

8. The Frank G. Kneeland Memorial Library of General Literature.

These collections contain 28,180 volumes and a valuable collection of pamphlets. There has been an increase of about 1,000 volumes during the year.

The collection embraces a great variety of works in classical, English, and foreign literature, in biography and history, in the various sciences and arts, and is exceptionally well furnished with encyclopedias and complete sets of American and European reviews. The books are classified and arranged according to the Dewey system, and an index of authors, titles, and subjects places the contents of the library at the command of all who are in search of information upon any subject.

Immediately adjoining the library stacks is the reading room, supplied with cases of reference books and the leading journals and periodicals of this country and England.

The library of Lincolniana, the gift of the late Hon. Arthur Hill, of Saginaw, occupies a special case in the history room.

The library is open daily from eight to twelve and from one to six except that on Saturday mornings it is closed until nine o'clock. The evening hours are from seven to nine o'clock on Tuesday and Thursday evenings.

Students may examine and use the books and periodicals during the library hours, and may draw them from the library and retain them for a period of one week, at the end of which they should either be returned or renewed. Other persons are allowed to use the library and reading room freely and are permitted to draw books on an equal footing with the students. Transient visitors in town are charged twenty-five cents a month for the use of the library books.

As a part of its work the library offers assistance without charge to high school instructors and students in the preparation of debates and orations. The library will lend books to ministers who are reading along special lines, the only charge being the payment of postage. Suggestions relative to helpful books will be made to those who apply. For this service address Librarian, Alma College, Alma, Mich.

During the past year the library has received gifts of books and magazines from the following: Rev. J. F. Jackson, Professor A. P. Cook, Rev. Joseph E. Nimrichter, The French High Commission, U. S. Government, the State of Michigan, The Peace League, Dr. T. C. Blaisdell, Yale University Press, Francis A. Henry, Francis King, University of Wisconsin, The Presbyterian Board, Mrs. Wm. Bahlke. Besides these Mr. Charles Moore gave about two hundred books of science, history, and travel.

The most notable gift to the library during the year was made by Mrs. Frank G. Kneeland, of St. Louis, Mich., in memory of her husband. It is a large and valuable collection of works of biography, history, fiction, etc. and will add materially to the resources of the library in the section of general literature.

Francis A. Hood Museum

The Hood Museum of Natural History, the gift of Mrs. Francis A. Hood, of Saginaw, and of Mr. Frank Hood, of Marinette, Wis., was finished and dedicated in June, 1900. It is two stories and a basement in height, with slate roof, and is one of the finest structures on the campus. It has two large exhibition halls lighted to give the largest possible space for the display of the collections. In the basement are storerooms and laboratories for the preparation of specimens, making the building one of the most complete and convenient museum buildings in the state.

The cases in use in the museum are built of oak, constructed on plans furnished by the U. S. National Museum, and are provided with adjustable shelves, dust and insect-proof doors, etc. At present the geological and mineral collections are the only ones systematically installed. Additional cases for the Winchell collections of fossils and for the Albino deer, have been provided through the generosity of Mrs. Francis A. Hood, of Saginaw, and Mr. Frank Hood, of Marinette, Wis.

The collections in the museum are:

1. The Stillwell collection of Michigan birds and animals.
2. The W. S. Crawford collection of birds.
3. The Shroyer-Wilcox collection of palaeozoic fossils.
4. The Alexander Winchell collection of rocks, minerals, and fossils.
5. The general geological and mineral collection.
6. The William S. Cooper collection of shells, minerals, and butterflies.

The Stillwell collection was made by a former resident of Alma, most of the specimens being collected in the vicinity of the College and representing some species now extinct or very rare for this locality. It numbers nearly 300 specimens, and was obtained by purchase.

The W. S. Crawford collection was made by the donor in various parts of the United States, and has a variety of rare specimens of birds from Florida, Arizona, and Michigan.

The Shroyer-Wilcox collection is a systematic collection of palaeozoic fossils, those of the Cincinnati group of rocks being especially well represented. It is valuable as a supplement to the other collections of fossils in the museum. It was acquired by purchase.

The Alexander Winchell collection is the largest and most valuable acquisition of the museum. The collection is that gathered by Professor Winchell during his long and active life as a geologist and teacher, and contains over 6,000 specimens, many of which were collected in Michigan by Dr. Winchell and described by him. These type specimens have an especial value. The collection was presented by friends.

The general biological collection contains representative vertebrate and invertebrate animal material, most of it yet to be arranged for exhibition, which has been collected during the history of the College. It will occupy the upper hall of the museum. It is estimated to contain 2,000 specimens.

The general geological and mineral collection is installed in the east end of the lower hall of the museum and numbers 2,500 specimens. It has been obtained largely by small gifts from numerous friends.

The Gymnasium

The gymnasium building contains the studio of the instructor in vocal music, the kindergarten rooms, the gymnasium, and an office. The rooms occupied by the kindergarten department are large and well-lighted, and in every respect are well arranged for both school and recitation purposes. The gymnasium occupies the entire upper floor of the edifice, and with its equipment of apparatus, the gift of Mr. John W. S. Pierson, of Stanton, and Mr. Charles H. Davis, of Saginaw, furnishes adequate facilities for athletic training. Here during the winter months daily classes in physical culture offer the opportunity for that systematic training of the body which is so necessary to the health of the student. This work is required of freshmen and sophomores, and is open to all other students.

LABORATORIES AND APPARATUS

The laboratories of the departments of Biology, Chemistry and Physics are located in the east wing of the Recitation Building in commodious and well lighted rooms. The equipment is adequate to the needs of the various courses in these sciences and is being constantly improved by additions of new apparatus and material for detailed and thorough study. Electric lanterns and a large number of slides are provided for illustrative purposes and well-selected reference libraries are readily accessible to the workers in each department. An ample supply of water, gas and electricity is furnished to each laboratory.

The Biological Laboratory. The first floor of the east wing, comprising two large work-rooms, an aquaria and tank room and an office, is devoted to the uses of this department. The equipment includes a sufficient number of compound and simple microscopes, microtomes, paraffin baths, typical preparations and models, air and water nets, wall charts, etc., for individual field and laboratory work in botany, zoölogy, bacteriology and allied subjects.

The Chemical Laboratory. The department of Chemistry occupies the entire basement of the east wing with two large rooms, an office and dispensing room, and a store room. A lecture room, well equipped for illustrative work in connection with recitations and lectures, is located on the third floor. The apparatus and other equipment needed for thorough practical work in inorganic and organic, qualitative and quantitive chemistry are provided. Among these may be mentioned the usual desk equipment, with chemicals, water and gas, balances, furnaces with ventilating hoods, polariscope, spectroscope and Kieldahl's apparatus for the determination of nitrogen.

The Physical Laboratory. The third floor of the east wing is divided into rooms for the use of the department of Physics, including laboratory, lecture room, shop and office. The equipment of the laboratory has recently been materially increased, the new apparatus purchased including a motor-generator, vacuum tubes, storage batteries, Leeds Northrup galvanometers, voltmeters, ammeters, spectrometer, etc., thus making possible all the regular experiments in advanced courses in physics, as well as in the general college courses. The new lecture room has modern fittings for experimental work, including a lecture table equipped with water, gas, direct and alternating electric current, and an ample supply of lantern slides for illustrated lectures on various phases of physics. The shop is equipped with a supply of tools for the use of students who desire to gain practical experience in the construction and repair of simple apparatus.

Davis Athletic Field

The generosity of Mr. Charles H. Davis, of Saginaw, provided the College in 1902 with a modern athletic field. About five acres of the campus not far from the gymnasium was perfectly graded, drained, surrounded with a high board fence, and equipped with football field, baseball diamond, quarter-mile cinder track, bleachers, and a grandstand. Water mains bring running water to the field. Outside the field are several tennis courts. In 1912 Mr. Davis added an imposing entrance gate, which renders the field one of the most attractive as well as one of the most adequate among the college fields of the Middle West.

The Students' Army Training Corps

Alma College was one of the institutions selected by the War Department for the establishment of a Students' Army Training Corps. The curriculum was adjusted to meet the needs of the War Department. Pioneer Hall was made into a barracks and Hood Museum was also converted into a lodging place for soldiers. Half of the large dining room in Wright Hall was partitioned off for a mess room.

The athletic field became the scene of much activity, bayonet courses were erected and trenches dug, and the bugle woke us in the morning, and sounded the end of each day's work. On December 11th the ninety-one students in the Students' Army Training Corps were mustered out of the Government service. The commanding officer was Lieutenant Charles L. Robinson, and with him was detailed Second Lieutenant Arthur G. Kruse.

The Students' Army Training Corps made the past year a unique year. The young men were full of zeal and altogether accomplished much. In the military work they did especially well, but it is also true that they had learned how to study even in the new and difficult environment by the time the Students' Army Training Corps was disbanded.

EXPENSES

Tuition and General College Fees

Tuition, per semester	$30.00
Matriculation Fee	5.00
Graduation Fee	5.00
Certificate Fee	1.00

Special Fees

Biology, per semester	$3.00
Chemistry, per semester	5.00
Physics, per semester	5.00
Physics 2	2.50
Late Registration	2.50
Student Activities, per semester	3.75

Student tuition and fees are paid at the beginning of each semester, before the completion of registration.

The student activities fee is collected through the College office and expended under the direction of a joint committee of faculty and students. It covers admission to athletic games and all public speaking and debating contests, subscription to the College paper, etc.

The rate per hour for less than eight and more than sixteen hours' work is $3.75.

Tuition in Music

Voice:

*One thirty-minute lesson a week, per semester	$25.00
Two thirty-minute lessons a week, per semester	45.00
Three thirty-minute lessons a week, per semester	60.00

Pianoforte and Pipe Organ:

*One thirty-minute lesson a week, per semester	18.00
Two thirty-minute lessons a week, per semester	30.00
Three thirty-minute lessons a week, per semester	40.00
All theoretical subjects, per semester	8.00

(Due from regular and special music students only)

Use of Piano:

One hour a day, per semester	$4.00
Two hours a day, per semester	6.00
Three hours a day, per semester	8.00

Music Tuition Regulations

All tuition must be paid in advance.

Lessons missed by students will not be made up except in cases of illness or unavoidable absence from school, in which case notice should be given in advance.

If a student leaves school during a semester, or discontinues a music course without permission from the Dean, no refund of tuition is allowed. In case of protracted illness, one-half of the tuition for the unexpired portion of the semester will be refunded. The request for this refund must be accompanied by a physician's certificate stating the inability of the student to continue his work.

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*One lesson a week per semester will usually allow seventeen lessons; two lessons a week, thirty-four, etc.

Board

Young women living in Wright Hall are required to board in the building. Young men desiring to get their meals there are permitted to do so. In the dining room several members of the Faculty take their meals.

Board is furnished in Wright Hall at cost. During 1918-1919 the weekly cost has been $4.25.

Some young men board in private homes or restaurants. Parents are urged, however, to have their sons board in the College dining-room.

Payments

Parents are urged to pay room rent, board and tuition by the semester (eighteen weeks) in advance, sending check directly to the College, made payable to Alma College. Bills for all unpaid accounts will be sent monthly to parents.

Rebates

The matriculation fee is never refunded in case of a student's withdrawal. If a student withdraws within two weeks, tuition and other fees are returned; before the end of six weeks, one-half is returned; after six weeks, none is returned. In case a student withdraws without the express permission of the Dean or the President, or in case of a student's dishonorable dismissal, the Faculty cannot assure the return of any part of the fees paid.

Summary of Expenses

The following table exhibits three scales of expenditure for the college year, exclusive of furniture, clothing, traveling expenses, personal items and fees for laboratory science work.

	LOW	MODERATE	LIBERAL
Tuition	$ 60.00	$ 60.00	$ 60.00
Student activities	7.50	7.50	7.50
Room rent (Wright Hall)	36.00	54.00	63.00
Room rent (Pioneer Hall)	45.00	45.00	45.00
Board	153.00	153.00	153.00
Books and stationery	10.00	15.00	25.00
Laundry	10.00	20.00	30.00

RELIGIOUS ORGANIZATIONS

Throughout the history of the College, Alma students have maintained a Young Men's and a Young Women's Christian Association. The members of these organizations strive to meet new students upon their arrival at Alma and assist them in registering, in finding rooms, and in becoming comfortably located. At the opening of each semester they hold social affairs for the purpose of promoting acquaintance. A union religious meeting is held on Wednesday evenings and separate meetings on Sundays. These meetings aim to develop true manliness and womanliness and to make clear that real religion is a thing of works as well as of faith. The organizations maintain voluntary Bible classes and send out leaders to organize and conduct mission Sunday schools. A band of student volunteers for mission work is regularly maintained. The associations unite with the Faculty in conducting special meetings during the college Week of Prayer. Christian manhood and womanhood is the aim of these associations. Consequently, they appeal to practically every student that comes to Alma.

ORATORY AND DEBATES

Alma College is a member of the Michigan Inter-Collegiate Oratorical Association, which conducts two contests, one for men and one for women, on the first Friday in March of each year. The College is also a member of the Alma-Hope-Olivet League and meets each of these colleges in debate annually. Preliminary trials to decide upon the contestants in the different competitions are scheduled during the year as follows:

Freshmen Oratorical Contest (men)	First Friday in November
Freshmen Oratorical Contest (women)	Second Friday in November
Men's Oratorical Contest	First Friday in December
Women's Oratorical Contest	Second Friday in December
Prohibition Contest	Third Friday in February

The management of these local contests is under the charge of the local Oratorical Association and Debating League.

LITERARY SOCIETIES

Two literary societies, Zeta Sigma and Phi Phi Alpha, are conducted by the young men of the College, and three, Alpha Theta, Philomathean and Froebel Club, by the young women. The aim of these societies is the development of a correct literary taste and of the power of precise and ready expression.

COLLEGE PUBLICATIONS

The *Alma College Bulletin* is published monthly by the College. This publication aims to keep the alumni, schoolmen, high school students, and friends in touch with the work, the progress, the needs, and the prospects of the College. It is sent without charge to all who may apply, either for single issues or for a place on the permanent mailing list. The College Catalogue makes one of the issues.

The *Almanian* is a student publication and is issued weekly during the college year. It is conducted by a board of editors who aim to make it a faithful reflector of college life in all its phases, as well as a consistent supporter of the interests of the institution from the standpoint of the student body.

The *Maroon and Cream* is the college annual published in May by the Junior class. It epitomizes the student activities of the year.

THE CLASSICAL CLUB

The Classical Club is conducted by the students of the ancient languages under the supervision of the instructor in Greek and Latin. The aim of the Club is the promotion of an interest in classical literature and archaeology. Meetings are usually held once a month during the college year.

THE SCIENCE CLUB

The purpose of the Science Club is to acquaint its members with the perspective of modern science and to promote interest and enthusiasm in the field of scientific research. Meetings are held periodically at which students and faculty members from all the departments of mathematical and physical science participate in the program. The current scientific periodicals are studied and all phases of science are considered. Students taking part in the programs find an excellent opportunity for training in the effective presentation of scientific topics which may prove of practical value in future professional work. The discussions contribute to a broad understanding of the intimate interdependence of mathematics and astronomy, geology, physics, chemistry, and biology.

LECTURES AND CONCERTS

The citizens of Alma maintain a course of lectures and entertainments called the Lyceum Course. Prominent speakers and notable musicians visit Alma from time to time under the auspices of this association, students being able to avail themselves of these advantages at small expenditure.

The College entertains guests and speakers from time to time. Some of the addresses delivered by these guests are given in the chapel and some gatherings are held in Wright Hall, the commodious dormitory for women. Since the date of the last catalogue of Alma College the following have been heard by the students of the College:

Dr. George Randels of Alma College.
Miss Caroleen Robinson of Alma College.
Mrs. E. A. Silverthorn, Field Secretary, Woman's Board of Foreign Missions.
Dr. Abby Virginia Holmes.
Dr. Minot C. Morgan, Fort St. Presbyterian Church, Detroit.
Rev. M. W. Duffey, M. E. Church, Alma.
Mr. A. B. Sheldon, Special Representative, Alma College.
Rev. William S. Hess, Westminster Presbyterian Church, Grand Rapids.
Mr. O. Smith, Ithaca.
Sergeant Rice, Elkton.
Mr. William A. Bahlke, Alma.
Rev. J. Frank Jackson, Episcopal Church, Alma.
Dr. Charles Merriman, Y. M. C. A.
Captain J. M. Mackendrick of the Canadian Army.
Dr. J. E. Stout, University of Indiana.
Rev. Willis L. Gelston, First Presbyterian Church, Alma.
Prof. Reese F. Veatch, Song Leader, U. S. Army.
Professor Cook of Alma College.

Rev. Robert Von Thurn, Hibbing, Minn.
Lieut. Donald Smith, Aviation.
Lieut. Alfred G. Papworth, Infantry.
Dr. James M. Barkley, Detroit.

AID FOR STUDENTS

Students of limited means expecting to complete a regular course at Alma, can usually obtain reasonable aid upon application to the President, who will bring their cases to the consideration of the Committee on Aid to Students. This committee administers an all too small Loan Fund. Students aided by this fund are expected ultimately to return the amount which they have received unless they enter upon a life which is so purely missionary as to render such return a burden. No interest is asked, although often beneficiaries prefer to pay interest.

Generous-minded friends, even though they can give but little, can scarcely do better with their gifts than to add them to this Student Loan Fund.

Students preparing for the ministry of the Presbyterian Church can secure as much as $100 a year from the Board of Education, if they need help, and if they are recommended by their home presbytery.

The children of home and foreign missionaries are granted scholarships yielding $30 per year when they are regular students of the College.

The College has forty-one permanent scholarships, most of which yield $30 a year, besides a varying number of annual scholarships supported by Alma alumni organizations, by individuals, and by churches. These scholarships are administered in varying ways by the faculty committee. A few go to persons designated by the donors. A few are granted on a basis of excellent class work. Most, however, are awarded to students of promise who have real need of help. Scholarships are usually granted for a year. They may be withdrawn, however, at the end of the first semester if recipients fail to do satisfactory work. Holders of scholarships may be asked to render some form of service to the College.

Scholarships thus administered become a help to the College as well as to the student. The demand for scholarships is regularly greater than the supply. Friends, Sunday schools, churches, women's clubs, or other organizations interested in helping young people, are invited to correspond with the President with reference to assuming a scholarship or part of a scholarship.

A number of students can usually find employment in the homes, stores, hotels, or boarding houses of Alma. The College, too, is at times able to give work to some young men and young women. Young men having a hundred dollars with which to begin a freshman year can usually complete a college course without interruption, provided they have health, energy, and a willingness to do faithful work. Young women should have at least fifty dollars more.

PERMANENT SCHOLARSHIPS

The following scholarships have been fully endowed in the sum of $500 each and the income from them is applied to the payment of the tuition of the beneficiaries:

NAME OF SCHOLARSHIP	DONOR
1. Watson B. Robinson	Mr. James W. Robinson ($550)
2. John J. Cleveland	First Presbyterian Church, Detroit
3. Thomas Merrill	Mr. Thomas Merrill
4. Memorial Presbyterian Church	Rev. D. M. Cooper, D.D.
5. Laurense	Mr. Leonard Laurense
6. Martha P. Seeley	Mr. John F. Seeley
7. Harry G. Kelton	Mr and Mrs. J. M. Kelton
8. Lucy Plum Mitchell Memorial	Mr. James E. Mitchell
9. Louis Penoyer Memorial	Mrs. Emeline Penoyer
10. Edith M. Davis	Mrs. Edith M. Davis
11. Alba A. Lull	Mr. Alba A. Lull
12. Martha B. Heartt	Mr. William A. Heartt
13. William A. Heartt	Mr. William A. Heartt

17. Helen Anderson Tanner	Mr. M. W. Tanner
18. Theodore D. Marsh	Dr. T. D. Marsh
19. Harriet Barton Wright Memorial	Mrs. J. H. Lancashire
20. Margaret N. Thorburn Memorial	Mr. James T. Thorburn
21. Charles Grant Brownell	Mrs. Mary E. D. Brownell
28. Grace Church Scholarship	Mr. Thomas Merrill
29. Francis King Scholarship	Mr. Francis King
30. M. S. Smith	Mrs. Helen Smith Deming
31. Charles D. Chatfield Memorial	Mr. Clarence B. Chatfield
32. First Presbyterian Church	First Pres. Church, Saginaw
33. Rachael W. Pierson	Mr. John W. S. Pierson
34. Marion H. Plum	Mr. J. H. Plum
35. John Cameron	Trumbull Ave. Pres. Church, Detroit
36. J. Ambrose Wight	First Pres. Church, Bay City
37. Katherine M. Inglis	Mr. Thomas Merrill
38. Hazel B. Garland	Mr. Arthur Garland
39. Nathan B. Bradley	Messrs. E. E. and F. W. Bradley
40. Westminster	Westminster Pres. Church, Bay City
41. Gould	Mrs. Helen Gould

The following scholarships have been named but are not yet fully endowed:

Charles Grant Brownell, William E. Rohlf Memorial, David M. Ladd Memorial, Helen Gould, John J. Cleveland.

The College is therefore able to award scholarships to the number of forty-one, with the income from five partial ones also to be employed.

Mrs. S. H. Preston, of Lansing, has endowed a scholarship in the sum of $1,200, but the income will not be available in 1919-1920.

UNIVERSITY FELLOWSHIP

The University of Michigan presents annually to a graduate of Alma a fellowship carrying an honorarium of $300. The recipient gives to the University some return in service, but has most of his time free to pursue advanced studies. The fellow is chosen by the Alma faculty. A member of the senior class or a graduate of not over four years' standing is eligible. Miss Edith Layer, '18, represented the College in 1918-1919.

HONOR SCHOLARSHIPS

The Silliman and Brownell Scholarships, each amounting to $50 in tuition and fees, are awarded annually to a young man and a young woman in the Junior class, of evangelical belief and exemplary conduct, who have the highest scholarship records as determined by honor points in the studies of the Freshman and Sophomore years. These scholarships during 1918-1919 were awarded to Carroll Wenger and Charlotte Hawes.

PRIZES

Greek Prize. The income of the Justin Marsh fund is awarded every second year to the student receiving the highest grade in New Testament Greek.

Oratorical Prizes. Rev. W. H. Mason, D. D., pastor of the Warren Ave. Presbyterian Church, Saginaw, offers a gold medal annually to the young man winning first place in an oratorical contest conducted under these conditions:

1. There must be at least six contestants.
2. The contest must take place before Christmas.
3. The winner may not contest a second time. He may, however, challenge another winner to determine which of them shall represent the College at the state contest.

The donor offers a gold medal under similar conditions for a women's contest.

These oratorical prizes are not offered in 1919-1920.

ALUMNI ASSOCIATION

Officers and Directors

President	James E. Mitchell, '93
Secretary-Treasurer	Stanley A. Graves, '10
Vice-President	Mrs. H. H. Soule, '03
Miss Ella Bittner, '12	Rev. J. Earl Webber, '05
Kendall P. Brooks, '97	Henry H. Soule, '03

The Association was formed by the class of '91. It has had a vigorous growth and has come to be regarded as an important and influential college organization. All graduates of the College are members of the Association.

In June, 1914, the constitution of the Association was changed by making the governing body consist of a board of seven directors, and by substituting annual gifts for the former dues.

The annual meeting of the Association is held on Tuesday of Commencement week, which has been designated as Alumni Day.

Alumni Club of Chicago

President	Rev. George A. Hill, '00
Vice-President	Rev. David Martin
Secretary-Treasurer	C. A. Monteith, '13

The annual meeting, February, 1920.

Alumni Club of Detroit

President	Stanley A. Graves, '10
Vice-President	Adelbert H. Lindley, '11
Secretary-Treasurer	Mrs. Anna L. Sebring, '12

The annual meeting, March, 1919.

Secretary's address, Highland Park.

Alumni Club of New York

President	Watson B. Robinson, '01
Secretary-Treasurer	E. Blake McDonald

The annual meeting, the first Friday in May.

Secretary's address, 1780 W. Ninth St., Brooklyn, N. Y.

Alumnae Association of the Kindergarten Training Department

President	Mrs. Kate Coddington, '03, Alma
Secretary-Treasurer	Miss Edna Swigart, '01, Alma

DEGREES CONFERRED

At the Commencement of the College held May 29, 1918, the following degrees were conferred:

Honorary Degrees

The Degree of Doctor of Divinity Upon

Rev. James D. Jeffrey	Detroit
On Founders' Day, Oct. 9, 1918.	
Rev. Fred B. Oxtoby	Huron, S. Dak.

Degrees upon Recommendation of the Faculty

The Degree of Bachelor of Arts Upon

Olive Madeline Batie	Bad Axe
Edward Frank Bittner, *cum laude*	Alma
Bess C. Brown	Farwell
Earl Hiram Coleman	Hastings
Marion Elsie Cooper	Lansing
Marie Doane, *cum laude*	Alma
Lula Ella Ellis	Alma
Frank E. Ellsworth	Kalamazoo
Octavio Perez Guerra	Alma
Anna Ruth Hooper	Alma
Harold Heath Lampman	Clare
Edith Elizabeth Layer, *summa cum laude*	Unionville
Laura Elsie Rather	Alma
Lucille Smith	Wheeler
Carl M. Street	Wheeler

The Degree of Bachelor of Science Upon

Helen Charlotte Baker	Thessalon, Ontario
Elizabeth L. Creaser	Alma

Class Honors

Valedictorian	Edith Layer
Salutatorian	Frank Bittner

CERTIFICATES GRANTED

At the Commencement of the College held May 29, 1918, the following certificates were granted:

A College State Certificate to

Olive Madeline Batie
Edward F. Bittner
Bess C. Brown
Elizabeth L. Creaser
Marie Doane
Lula L. Ellis
Anna Ruth Hooper
Laura E. Rather
Carl M. Street

A State Kindergarten Certificate to

Delora Bretz
Bernice Brooke
Margaret Burnett
Marguerite Crawford
Eleanor Currie
Marguerite Dyer
Olive Eggleston
Elizabeth McFadyen
Arlene McKay
Nellie Milligan
Ruth Mitchell
Helen Parsons
Gene Ramsdell
Rachel Stein
Leone Tatroe
Katherine Van Lopik
Bertha Vogt

A Certificate in Piano to

Edith Palmer

The Register of Students

SENIORS

Ardis, Emberson....................................McBain
German
Burtch, Howard S...................................Howell
Biology and History
Doty, Ellen Livingston.......................Breckenridge
Latin and German
Fitch, George Leland..............................Marlette
Mathematics
Jackson, Thomas...................................Chicago
German and Biology
Gates, Erma Gail..................................Bay City
Latin and English
Gillard, Grace Jean................................Alpena
English and Chemistry
Koepfgen, Beatrice E.............................Cass City
English and History
McConkey, Mildred L.............................Coldwater
Latin and English
Nisbet, Stephen S..................................Twining
History
Nunn, Iva Elizabeth...............................St. Louis
English and History
Peters, Gertrude Rebekah..............................Flint
Latin and English
Rose, Rowena...............................Traverse City
Latin and German
Smith, Donald Brainard...............................Alma
History and Economics
Wales, Emma...Detroit
English and Pedagogy
Waninger, Katharine................................Detroit
Kindergarten and History
Warner, Stanley A..................................Howell
History and English

JUNIORS

Anderson, John Melvin........................Boyne City
Mathematics and German
Ardis, Eva Ruth.....................................McBain
History and German

Boyne, Edwin M.	Marlette
Chemistry and English	
Creaser, Charles Wm.	Alma
Biology and Chemistry	
Davies, Myrddyn Cooke	Peckville, Pa.
English and History	
Duffey, Grace Clarissa	Alma
French and Kindergarten	
Finlayson, John Lovell	Laurium
Chemistry and Biology	
Green, Vernie	Deckerville
English and History	
Grimm, Helen Gertrude	Alma
French and English	
Hawes, Charlotte E.	Coldwater
French and Mathematics	
Jackson, Jean McColl	Croswell
History and Mathematics	
Krueger, Floyd Hueston	Chicago
Philosophy and Economics	
Lyon, Hartzell Jesse	Ada
Physics and Mathematics	
Mashin, Blanche Rae	Chicago
English and History	
Miller, Lura	Alma
French and Chemistry	
Van Duzen, Dale	Breckenridge
Biology and Mathematics	
Wenger, Carroll Eugene	Saginaw
Biology and Chemistry	

SOPHOMORES

Adams, Robert MacRea	Alma
Anderson, Fay E.	Breckenridge
Ardis, Margaret Roberta	McBain
Bacon, Louise Anna	St. Louis
Barnhart, Lyle De	Berrien Springs
Beshgetoor, Willard Daniel	Alma
Blick, Virginia	Detroit
Calkins, Neill Horace	Sebewaing
Cash, Paul R.	Alma
Chase, Lauretta Doris	Traverse City
Davis, Harold Albert	Alma
Doty, Grace Edith	Breckenridge
Forrester, Gertrude Marion	Deckerville
Friedrich, Esther Magdalen	Coldwater
Gies, Gretchen M.	Reese

Handley, Howard Henry	Elwell
Harrison, Birdie Elizabeth	Minden City
Hopkins, Clarence Warren	Breckenridge
Kelly, Audrey Chas	Sandusky
Kern, Rolland Otto	Reese
Mitchell, Dorothy Drew	Harrisville
Moore, Howard Glenn	Alma
Moore, Margaret Elsie	Flint
Newton, William A	Traverse City
Parker, Genevra E	Caro
Pelton, Frank Peter	Bentley
Purdy, Florence Josephine	Gagetown
Purdy, Martha Alberta	Greenville
Reed, Dorothy Deborah	Culver, Ind.
Reid, Marion Leslie	Chicago
Richards William Ferguson	McGregor
Schmidt, Eva Ruth	Saginaw
Schultz, Robert F	Alma
Sharrar, Lee M	Alma
Smalldon, Rosella	Sandusky
Swanson, Claudia Marie	Grand Marais
Taylor, George Ransom	Caro
Thompson, Florence Olive	Williamston
Voelker, Lona Elizabeth	Ionia
Ward, Hulda	Alma

FRESHMEN

Amos, William Davies	Plymouth, Pa.
Allen, Lester John	Alma
Anna, Chas. John	Muir
Armstrong, Herbert J	Perry
Arthur, Harold M	Saginaw
Avery, Collins Thomas	Northport
Bailey, Richard J	Flint
Baker, Van Amber	McBain
Balholf, Harry Grant	Sandusky
Ball, Gladys Marie	Milford
Ball, Junior	Milford
Barber, Paul Kenneth	Coldwater
Barnes, Helen	Charlotte
Bay, Carroll Remington	Calumet
Benson, Rozella	Saginaw
Boyd, Wm. Glen	Alma
Branch, Norman C	St. Louis
Brenholtz, Wm. Carlos	Flint
Buckley, Elizabeth	Philadelphia
Campbell, Glen Clark	Alma
Cant, Wm. Alfred	Detroit
Carmichael, Wm. Ernest	Calumet

Cary, Harold Alonzo	Coleman
Cashmore, Pearl Margaret	Wyandotte
Clarke, Howard Albert	Detroit
Comins, Knowlton John	Saginaw
Crittenden, Waldo Victor	Howell
Crouch, Harriett Josephine	Forrest, Ill.
Curren, Geneva Reede	Lansing
Davis, Harold Lloyd	Elberta
Dean, Doris A.	Vassar
DePuy, Mary Esther	Grand Ledge
Devereaux, Ezra Ennis	Ithaca
Dudley, Jennie Leone	Armada
Dunlap, Edward Alexander	Montclair, N. J.
Dunning, Lawrence Eugene	Howell
Elms, Oral Bradish	Ludington
Erickson, Elmer Clarence	Verona, N. J.
Field, Mabel Lamson	Rudyard
Fillmore, Franklin Ellsworth	Akron
Findlay, Lloyd Lewis	Reese
Garland, Beulah Emily	Howell
Hainline, Joanna Louise	Alma
Hale, James Louis	Wyandotte
Hall, Dorothy Maria	St. Louis
Hamilton, Ruby R.	Akron
Harrington, Ida Beatrice	Charlevoix
Hayward, Chas. Garie	Breckenridge
Hillman, Walter Carl	Akron
Holland, Elmber Cleon	Vestaburg
Hudson, Wayne W.	Middleton
Hyslop, Leo Don	Clifford
Iutzi, Gretta Ostana	Alma
Johnstone, Harold Adam	Wheeler
Keene, Merle Vance	Alma
Kiersey, Lawrence Josephus	Omena
Kinney, LeRue Durffee	St. Louis
Kinney, Nellie Bates	Lansing
Klump, Floyd Chas	Riga
Knapp, Neva Elynore	Flint
Krueger, George Theodore	Chicago, Ill.
Lansing, Alice Lucinda	Milford
Leslie, Albert W.	Deckerville
McBride, Mildred Lowery	Lapeer
MacCurdy, Marjorie Gail	Alma
McIntosh, Miriam Josephine	Saginaw
Maynard, Glen Lewis	Crosswell
Miller, Jeanne Rae	Alma
Miller, Mildred Anne	Sebewaing
Monroe, Clifford D.	Howell

Moore, Fred Wm.	Port Huron
Nicholson, Hiram Adelbert	Ionia
Olmsted, George Elmore	Alma
Osgood, Beulah Louise	Temperance
Otterbein, Arthur Wilfred	Elkton
Otto, Howard James	Middleton
Overton, Donald DeSoto	Mo.
Paige, Beatrice Evelyn	Deckerville
Paul, Gladys Irene	Caro
Perrigo, Roy John	St. Louis
Priest, Frances Morton	Alma
Prior, Frederic Everett	Milford
Quinn, Linville Herbert	Kalamazoo
Redman, Clare Harold	St. Louis
Rice, Laura Grace	Elkton
Richards, Glenn	Detroit
Richards, Marshall F	Oak Grove
Sartor, Caris W	Alma
Scott, Russell W	Sandusky
Seaman, Bryce E	Drummond
Smith, Forrest A	Alma
Sommerfeldt, Arthur Frank	Cadillac
Stauffer, Clair Carlton	Vestaburg
Steadman, Garfield Alger	Pigeon
Steele, Francis Marion	Belding
Stroup, Helen Gladys	Grand Rapids
Sturtridge, Burton	Croswell
Suffern, Fay	East Jordan
Swett, Earl Walter	Alma
Tebo, Sinclair	Detroit
Temple, Percy Franklin	Sandusky
Thompson, Burr Everitt	Reese
Thompson, Eunice Agnes	Reese
Tomion, Samuel Walter	Fowlerville
Vreeland, Frank M	Bay City
Weatherhead, Paul F	Harrison
Wenger, Wayne Rice	Saginaw
Whalley, Martha Claire	Kalkaska
Wheeler, Thurston Willard	North Star
Wilk, John Carl	Alma
Willet, Harry Richard	Alma
Williams, Clarence LeRoy	Applegate
Wing, Earl C	Perry
Wyatt, Robert D	Pickford
Zinn, Wm. Roger	Alma

SPECIAL STUDENTS

Boissot, Marie Louise	Montceau, France
Kneeland, Helen L.	St. Louis
Ritter, Johanna	New York City
Robinson, Persis S.	Traverse City

VOICE STUDENTS

Amos, William	Plymouth, Pa.
Borton, Miss W. H.	Breckenridge
Field, Mabel	Rudyard
Field, Marguerite	Rudyard
Fillmore, Franklin	Akron
Forrester, Marion	Deckerville
Green, Vernie	Deckerville
Hawes, Charlotte	Coldwater
Jackson, Dorothy	Alma
Kinsel, Wilhelmina	Ithaca
Krueger, Floyd	Chicago
Lansing, Alice	Milford
Lewis, Irma	Alma
Palmer, Sara	Alma
Porterfield, Mrs.	Alma

PIANO STUDENTS

Bacon, Thelma	Alma
Barnes, Helen	Charlotte
Barker, Mary	Alma
Berryman, Bernice	Alma
Bradford, Mabel	Alma
Crawford, Marguerite	Breckenridge
Curren, Geneva	Lansing
Doty, Edith	Breckenridge
Doty, Ellen	Breckenridge
Dudley, Jennie	Armada
Falor, Grace	Alma
Field, Mabel	Rudyard
Fletcher, Mildred	Alma
Grimm, Helen	Alma
Hamilton, Ruby	Akron
Harrison, Birdie	Minden City
Huff, Helen	Alma
Knapp, Neva	Flint
Kneeland, Helen	St. Louis
Lansing, Alice	Milford
Manning, Bernadette	Alma

Mates, Ruby	Alma
Miller, Susan	Alma
Mitchell, Dorothy	Harrisville
Moore, Margaret	Flint
Parker, Genevra	Caro
Paul, Gladys	Caro
Perry, Nina	Breckenridge
Purdy, Florence	Gagetown
Purdy, Martha	Greenville
Queen, Elizabeth	Riverdale
Rhodes, Esther	Alma
Robinson, Persis	Traverse City
Selingluff, Doris	Elwell
Sheldon, Mrs. A. B	Alma
Slater, Daisy	Alma
Smalldon, Rosella	Sandusky
Spinney, Melba	Alma
Stevens, Oneita	Breckenridge
Stroup, Helen	Grand Rapids
Swanson, Claudia	Grand Marais
Swope, Edna	Riverdale
Vaughan, Ethel	Frankfort
Wales, Emma	Detroit
Wall, Mildred	Alma
Watson, Beulah	Breckenridge
Whalley, Claire	Kalkaska
White, Flora	Alma
Winslow, Hope	Alma

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*The whole number of men in the Student's Army Training Corps was 91.

LIST OF ALUMNI

(The List of Alumni usually inserted in this part of the Catalogue is omitted and will appear in revised form in a subsequent Bulletin.)

FORM OF BEQUEST

"Item—I hereby give, devise, and bequeath to Alma College, a corporation organized and existing under the laws of the State of Michigan, of Alma, Gratiot County, Michigan, the sum of..............Dollars, to it absolutely."

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The Principal will return this Certificate by mail to the Registrar of Alma College, Alma, Michigan.

ALMA COLLEGE

This part of the form is to be filled out by the candidate.

Name ....

Write all names in FULL, including the MIDDLE name.

Date of birth.............................*Place of birth*.............................

Where prepared for college..

Home address..

Name of parent or guardian..

Address of parent or guardian..

This part of the form is to be

Admitted on.............................*from*.............................*School*

Date.............................*19*.......

.... *Registrar*

The Principal will return this Certificate by mail to the Registrar of Alma College, Alma, Michigan.

ALMA COLLEGE

This part of the form is to be filled out by the candidate.

Name ....

(Write all names in FULL, including the MIDDLE name)

Date of birth .... *Place of birth* ....

Where prepared for college ....

Home address ....

Name of parent or guardian ....

Address of parent or guardian ....

This part of the form is to be filled out by the Principal of the High School.

RECOMMENDATION FOR ADMISSION TO THE COLLEGE

Date .... 191 .

M .... *is a* { *student* / *graduate* } *of the* ....

High School in the .... *Course, Class of* .... *has*

pursued the studies recorded on the following page with the success indicated by the attached standings,

and is hereby recommended for admission to the Freshman Class of Alma College.

Pass mark of School .... *Studies per day* ....

REMARKS

(The Principal is requested to give here a general estimate of the work and character of the student)

.... *Principal*

This part of the form is to be filled at the College.

Admitted on .... *from* .... *School*

Date .... 19......

.... *Registrar*

STUDIES	STANDING	TEXT BOOKS	TIME IN W'KS AND HOURS PER WEEK	UNITS	REMARKS
English Grammar and Composition					
Rhetoric					
Vergil					
Greek Lessons..............					
Xenophon					
Homer					
German Grammar...........					
German Authors............					
French Grammar............					
French Authors.............					
Additional Subjects..........					

STUDIES	STANDING	TEXT BOOKS	TIME IN W'KS AND HOURS PER WEEK	UNITS	REMARKS
English Grammar and Composition					
Rhetoric					
English Literature					
American Literature					
Algebra, Elementary					
Algebra, Higher					
Geometry, Plane					
Geometry, Solid					
U. S. History					
Ancient History					
Med. and Modern History					
Civil Government					
Botany					
Zoology					
Geology					
Physics					
Physiography					
Chemistry					
Astronomy					
Latin Lessons					
Cæsar					
Cicero					
Ovid					
Vergil					
Greek Lessons					
Xenophon					
Homer					
German Grammar					
German Authors					
French Grammar					
French Authors					
Additional Subjects					

Address inquiries of all kinds except those noted below, to The President, Alma College, Alma, Mich.

High school principals will send entrance blanks to The Registrar, Alma College, Alma, Mich. Requests for credits should also be addressed to the Registrar.

Send checks for room deposits, tuition, board, etc., to The Secretary, Alma College, Alma, Mich. Make checks payable to Alma College.

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